

Appendix E

## **DSM2 Modeling Studies of the Delta Mendota Canal/California Aqueduct Intertie**

# **DSM2 Modeling Studies of the Delta Mendota Canal/California Aqueduct Intertie**

PREPARED FOR: Patricia Roberson/USBR

PREPARED BY: Kyle Winslow/SDO

Armin Munévar/SDO

COPIES: Michelle Light/USBR  
Allan Highstreet/SAC  
Rob Tull/SAC

DATE: June 21, 2004

## **Introduction**

The proposed Delta-Mendota Canal / California Aqueduct Intertie Project (Intertie) will allow for increased pumping through the Tracy Pumping Plant. The proposed Intertie will restore flow capacity lost as a result of subsidence along a portion of the canal. The increase in flow through the Tracy Pumping Plant will alter the existing hydraulic patterns in the Delta and thus the distribution of salinity throughout the Delta. The Delta Simulation Model (DSM2) was used to predict changes in Delta water quality associated with changes in Delta inflows, exports, and outflows associated with the Intertie project. Electrical Conductivity (EC) was used as a surrogate for salinity and thus water quality.

## **Overview**

DSM2 is a one-dimensional hydrodynamic and water quality simulation model used to predict conditions in the Sacramento-San Joaquin Delta. The model was developed by the Department of Water Resources (DWR) and is frequently used to ascertain impacts associated with projects in the Delta, such as changes in exports, diversions, or channel geometries associated with dredging in Delta channels. It is considered the official Delta water quality model.

For this analysis, CH2M HILL conducted a total of four 16-year DSM2 simulations representing baseline conditions and conditions simulating implementation of the Intertie project for both the 2001 and 2020 Level-of-Development. Simulations were run from water year 1975 to 1991, with the first year of model predictions discarded to allow for model spin-up. This standard 16-year simulation is routinely used for impact analysis.

Model-predicted EC were compared in graphical and tabular format at 11 selected locations throughout the Delta to quantify any changes in salinity for the project alternative. These locations include: Martinez, Collinsville, Emmaton, Rio Vista, Antioch, Jersey Point, Old River at Rock Slough, Rock Slough at Contra Costa Canal (Pumping Plant #1), Old River at State Highway 4, Clifton Court Forebay, and Tracy Pumping Plant. Model output was

generated at additional locations, but not all output locations were included in this comparative analysis. All model results have been archived and are available for additional analysis.

The DSM2 simulations used hydraulic boundary conditions supplied by CALSIM II model results from simulations with consistent Intertie or base assumptions. The CALSIM II model simulations and results are discussed in a separate memorandum provided to the U.S. Bureau of Reclamation (Reclamation).

## **Methodology**

This section discusses the methodology used in the DSM2 simulations reported herein. A discussion of hydrodynamic and water quality boundary conditions, as well as physical structures in the Delta, is included to provide information on how the simulations were developed. A complete discussion of results follows.

### **Boundary Conditions**

DSM2 simulations were conducted with a modified astronomical tide to maintain consistency with the South Delta Improvement Program (SDIP) DSM2 simulations and to use the most current modeling techniques used by the DWR. The modified astronomical tide contains spring/neap tide variations, and is considered an improvement over the historic use of a repeating mean tide.

Sacramento River inflows to DSM2 were taken from CALSIM II channel C169. The monthly values obtained from CALSIM II were smoothed into a daily time series according to standard practice. Tools provided by DWR were used to smooth the Sacramento River Boundary Condition. Other boundary condition flows, including inflows from Mokelumne, Calaveras, and Consumnes Rivers, flows in the Yolo Bypass, and exports through the North Bay Aqueduct and to Vallejo and Contra Costa Water Districts were taken directly from CALSIM II model output.

Export flows at Tracy and Banks, as well as inflows from the San Joaquin River, were modified from time series data obtained directly from CALSIM II in order to incorporate flow restrictions associated with VAMP. Spreadsheet tools supplied by DWR were used to generate daily time series data at Tracy, Banks, and Vernalis accounting for the VAMP period (April 15 to May 15). Mass balance checks were performed to insure the partial month flow representation maintained mass.

The Martinez EC boundary condition was calculated by standard methods taking into account the astronomical tide level and the net Delta outflow. DWR supplied programs for calculating this boundary condition. The EC boundary condition on the San Joaquin River at Vernalis was also adjusted from CALSIM II output in order to account for the VAMP period. Spreadsheet tools developed and supplied by DWR were used to generate daily EC conditions at Vernalis. Sacramento River and Yolo Bypass EC boundary conditions were held constant at 175  $\mu\text{mhos}/\text{cm}$  to maintain consistency with the SDIP investigations. A constant value of 150  $\mu\text{mhos}/\text{cm}$  was applied for the eastside streams and Calaveras inflows.

## **Delta Island Consumptive Use**

Delta Island Consumptive Use (DICU) was consistent with CALSIM II. Diversions from the Delta, agricultural return flows, channel seepage, and water quality in the return flows were all taken from HEC-DSS files generated for full-period (water years 1922-1994) DSM2 simulations. A total mass balance on all components of DICU was conducted to assure consistency with those values used in the CALSIM II runs.

## **Gate Operations**

DSM2 includes the operation of several tide gates, culverts, and weirs which influence the hydrodynamic patterns in the Delta. In addition to these standard fixed structures, a series of temporary salinity barriers in the south Delta, such as those at Grant Line Canal, Old River at Tracy, Middle River near Tracy Blvd, and Old River at the head of the San Joaquin River, were modeled in this analysis. All temporary barrier operations remained consistent with the SDIP existing conditions simulations. Spreadsheet tools developed and supplied by DWR were used to generate the temporary barrier operation based on flow in the San Joaquin River. Temporary gate operations were recalculated for each of the four simulations.

Clifton Court Forebay operations were defined by Priority 3 operations to maintain consistency with the SDIP existing conditions simulations.

### *Delta Cross Channel Gate*

The operation of the Delta Cross Channel Gate in these DSM2 simulations was consistent with the SDIP existing conditions simulations. Delta Cross Channel Gate position was based on CALSIM II output, and was processed through programs written and supplied by DWR in order to generate a time series of daily gate operations.

## **Mass Balance**

A water mass balance was performed on the Delta to insure the proper specification of boundary conditions in the DSM2 simulations. Results indicate that boundary conditions were properly specified and implemented in the model.

## **Results**

Model predictions for EC concentration were analyzed at several locations throughout the Delta. DSM2 output consists of hourly, daily, and monthly average flow and electrical conductivity (EC, a surrogate for salinity). Comparisons were made between baseline and Intertie project conditions at select locations throughout the Delta. The discussion below is presented in two parts, the first summarizing changes for the two 2001 simulations, and the second for the 2020 Level-of-Development simulations.

## *2001 Level of Development*

This section discusses changes made to DSM2 to simulate impacts associated with the Intertie Project at a 2001 Level-of-Development. Each major boundary condition is presented comparing the baseline conditions to the project conditions. The impacts of these changes are then discussed.

Figures 1 through 4 below present a comparison of the major flow boundary conditions, including exports at Tracy and Banks, and flows on the Sacramento and San Joaquin Rivers, respectively. In general, average exports at Tracy are increased as a result of the project, while exports at Banks are slightly reduced. Figure 5 presents the effect on Net Delta Outflow of these changes and those on the Sacramento and San Joaquin Rivers.

Since the Martinez EC boundary condition is calculated using NDO, and changes to NDO will affect the EC at Martinez and thus the EC throughout the majority of the Delta. Figures 6 and 7 summarize the simulated changes in EC throughout the Delta as a result of the Intertie Project. Figure 6 presents results at Martinez, Collinsville, Emmaton, Rio Vista, Antioch, and Jersey Point. It is apparent from the figures that changes in EC at Martinez propagate through the Delta. The timing of the majority of the EC spikes shown in Figure 7 coincides with EC spikes at Martinez. Furthermore, the largest change in EC is generally at Martinez.

One example of this occurs in January 1981, when changes in EC at Martinez approach 1000  $\mu\text{mhos}/\text{cm}$ , and decrease in magnitude as the water filters through the Delta. At Jersey Point, the changes have been reduced by a factor of four. Still, the Martinez EC has a far-reaching influence on EC throughout the Delta, including the South Delta.

The increase in CVP exports in January of water year 1981, and thus the resulting decrease in NDO and increase in EC at Martinez, is caused by a preceding changes to CVP San Luis storage condition. Under the Base CALSIM II simulation, CVP San Luis storage was filled to the maximum value (971 taf) in this month and additional CVP exports were limited by availability of SOD storage capacity. However, in the Intertie simulation the beginning of month CVP San Luis storage was lower than the Base simulation by approximately 170 taf. As a result of the greater available SOD storage capacity, the CVP could pump greater Delta surplus in January and resulted in larger changes in EC than would realistically occur.

Figure 7 presents results in the southern Delta, including Rock Slough at Old River, Rock Slough at Contra Costa Canal, Old River at SR4, Clifton Court Forebay, and Tracy pumping Plant. Peak changes in EC in the South Delta are less than 80  $\mu\text{mhos}/\text{cm}$ .

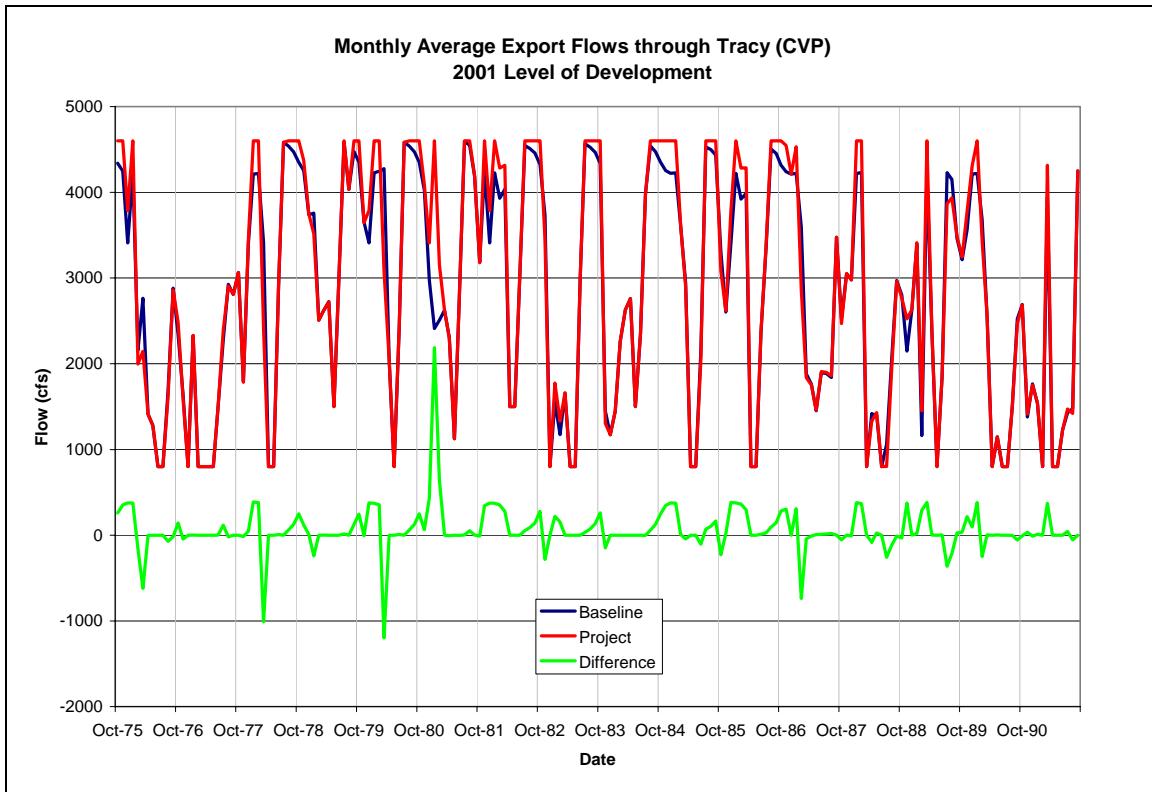


Figure 1. Comparison of Baseline and Project Flows at Tracy (2001 LOD)

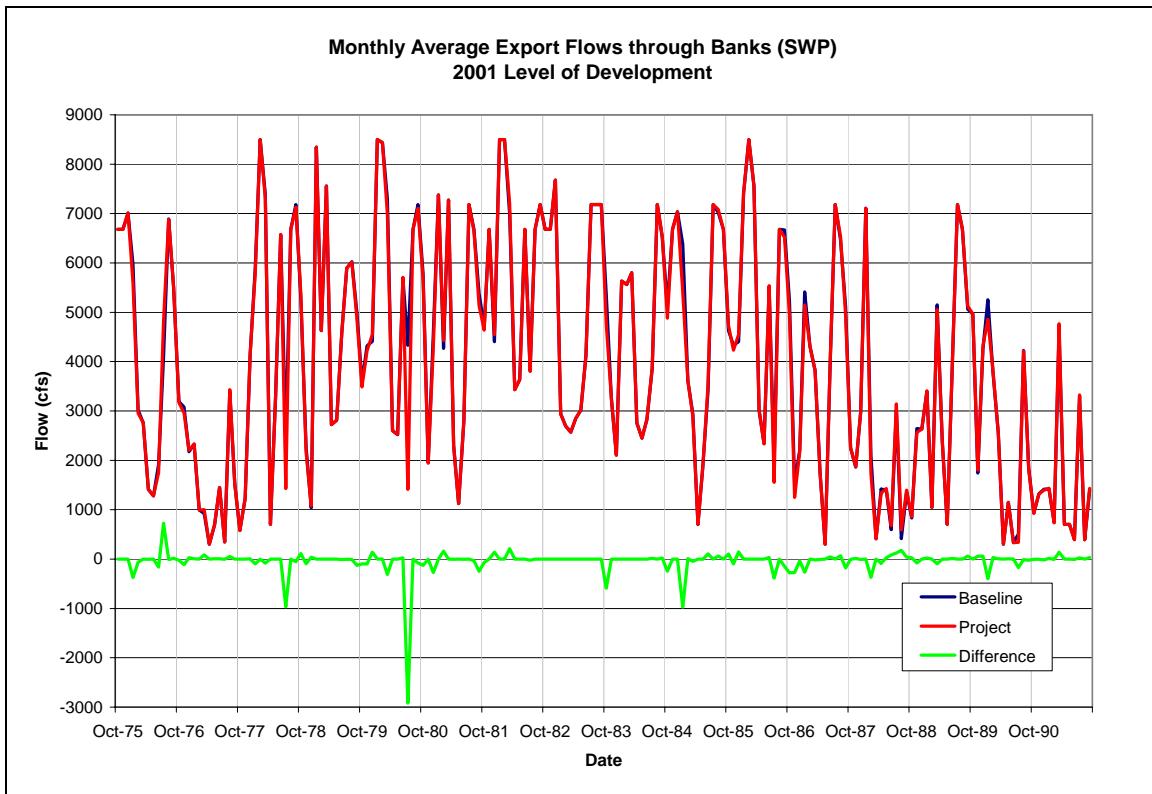


Figure 2. Comparison of Baseline and Project Flows at Banks (2001 LOD)

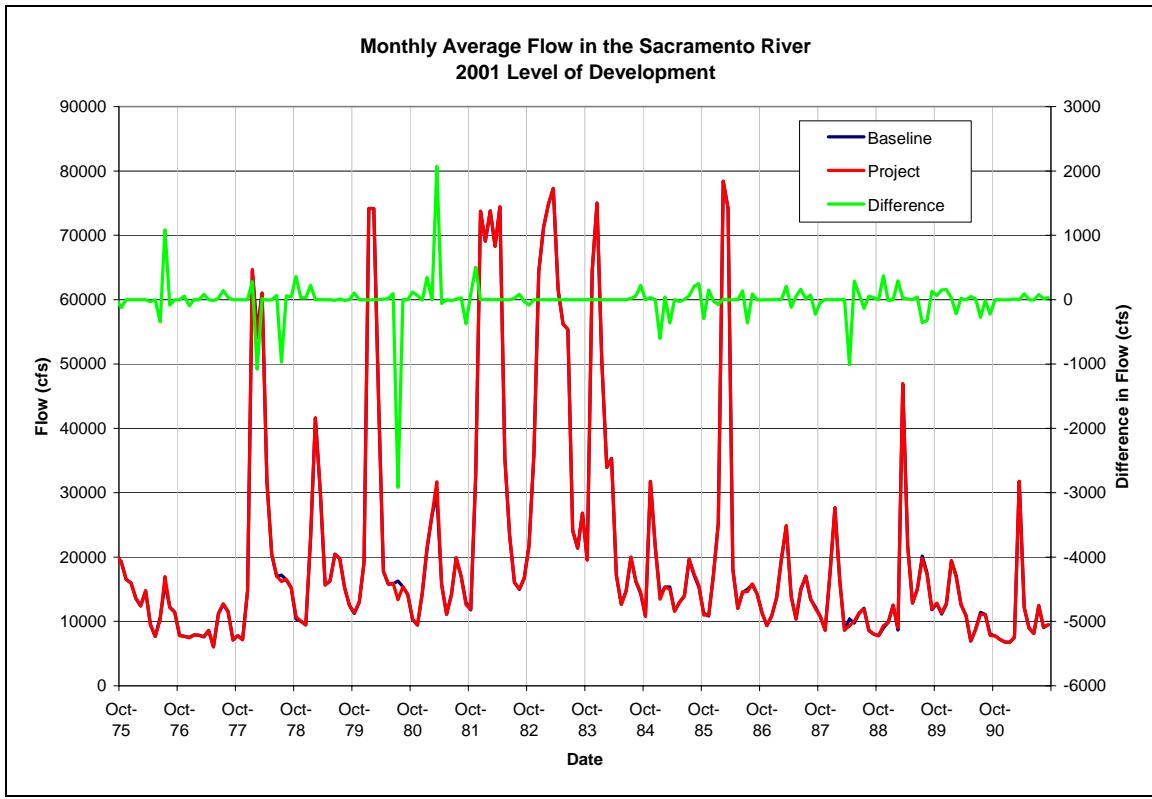


Figure 3. Comparison of Baseline and Project Flows, Sacramento River (2001 LOD)

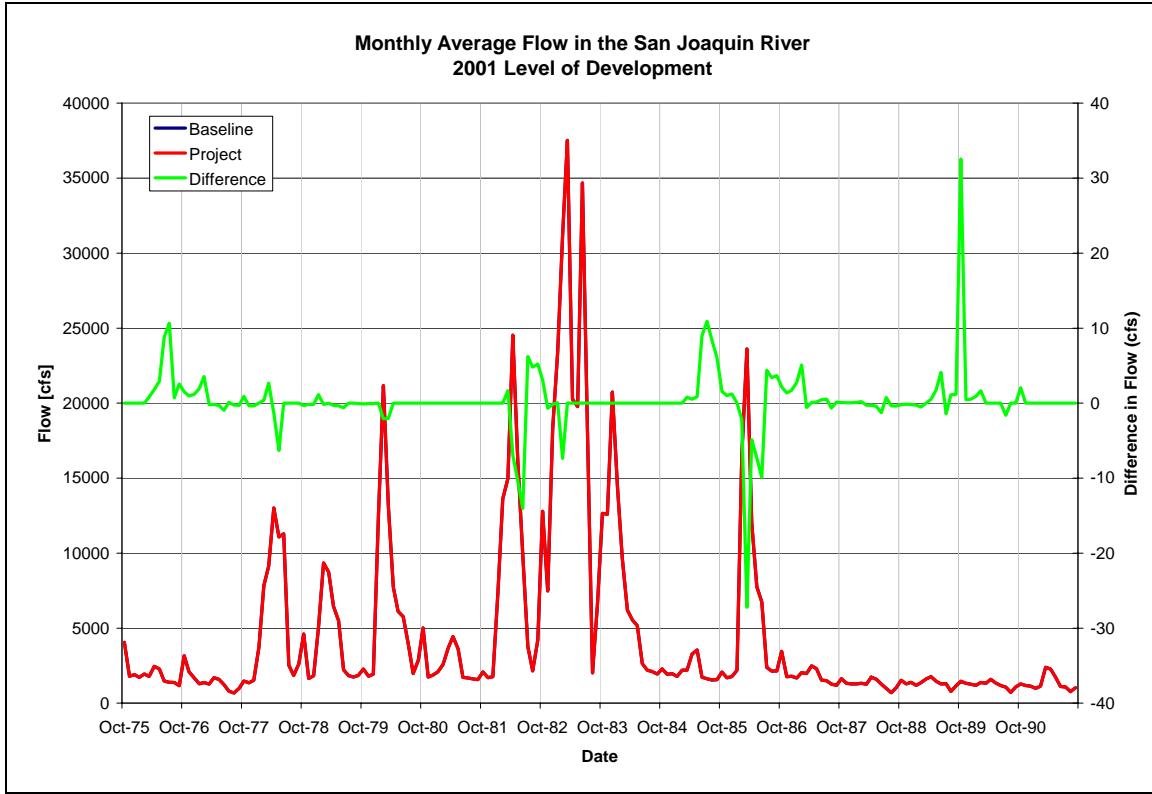


Figure 4. Comparison of Baseline and Project Flows, San Joaquin River (2001 LOD)

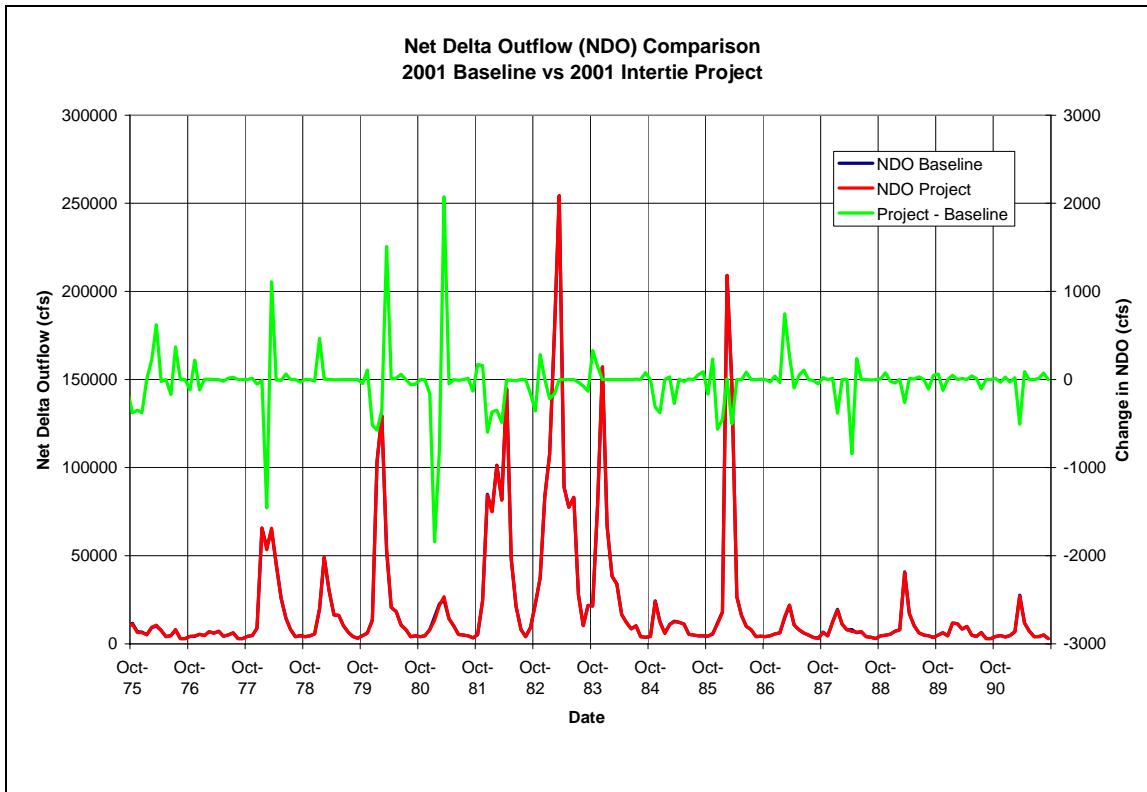


Figure 5. Comparison of Baseline and Project Flows, Net Delta Outflow (2001 LOD)

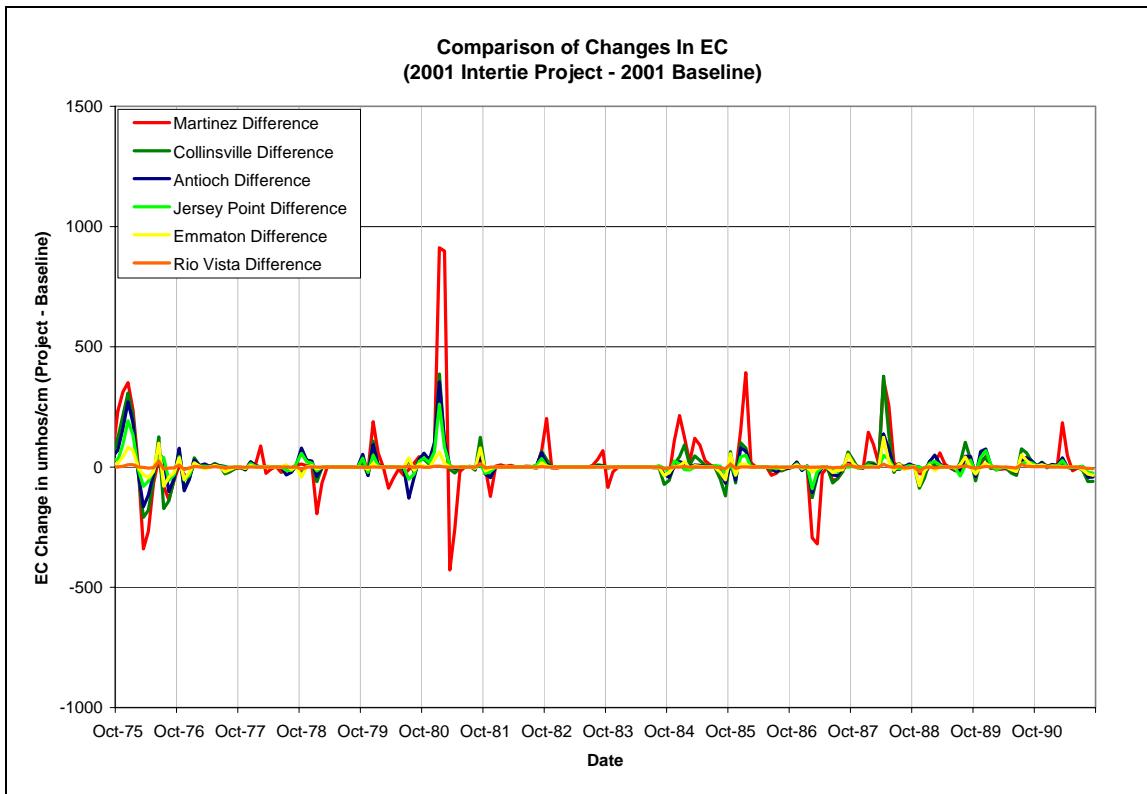


Figure 6. Comparison of EC Changes with Intertie Project, West Delta (2001 LOD)

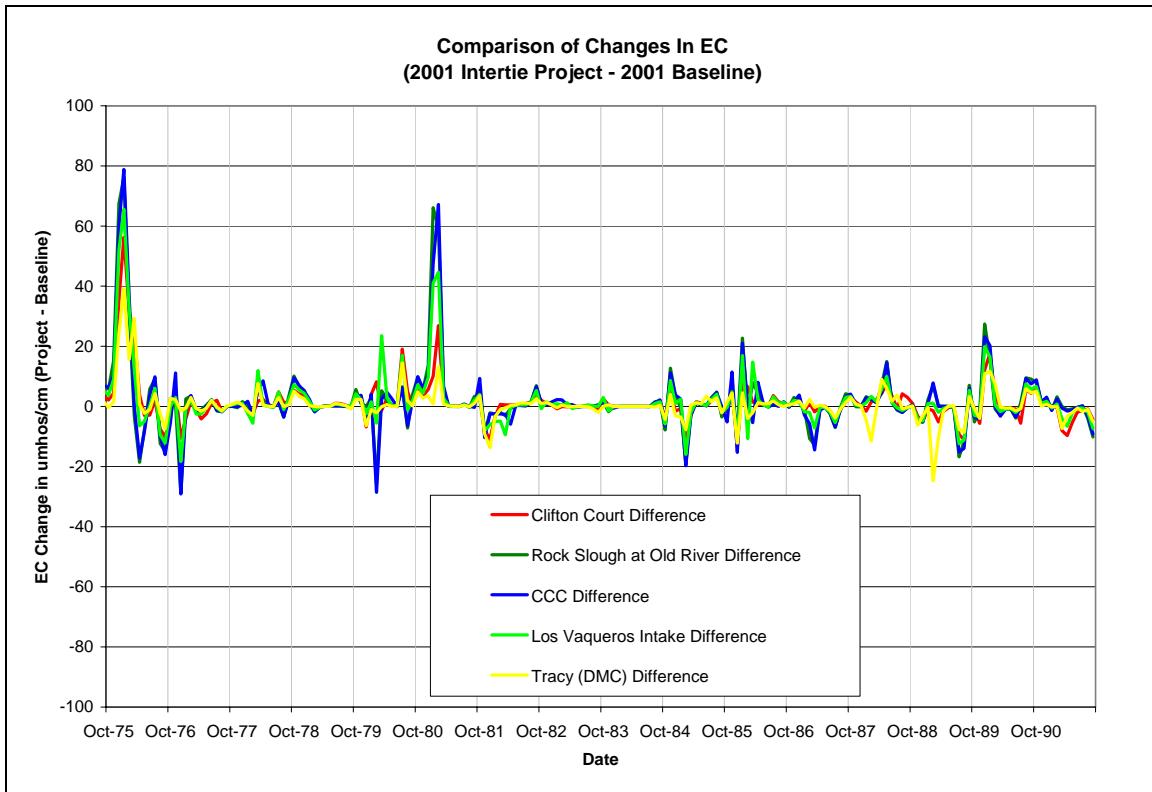


Figure 7. Comparison of EC Changes with Intertie Project, South Delta (2001 LOD)

Table 1 presents a summary of monthly EC values at select locations throughout the Delta. The statistics were performed on monthly average EC values from the 16-year simulation. The maximum, minimum, and average monthly EC values are presented for the Baseline and Intertie Project simulations. A more in-depth analysis of variations in model results for the project alternatives is presented in Appendix A. Time series comparison plots were generated with model results from water years 1976 through 1991. These plots, as well as summary tabulations of model results, are compiled in Appendix A.

Table 1. Summary of Monthly EC at Select Locations throughout Delta (2001 LOD)						
	Baseline			Intertie Project		
	Maximum	Average	Minimum	Maximum	Average	Minimum
Martinez	23529.6	15637.8	189.5	23533.8	15653.7	189.6
Chippis Island	13066.9	5804.0	171.3	13080.8	5815.2	171.3
Collinsville	9719.9	3883.5	171.8	9724.4	3890.4	171.8
Emmaton	3626.7	1113.1	174.3	3624.7	1114.1	174.3
Rio Vista	713.8	288.0	176.4	715.3	288.1	176.4
Antioch	5788.9	2069.4	164.5	5739.8	2076.3	164.5
Jersey Point	3136.4	1078.6	161.3	3136.2	1083.8	161.3

Rock Slough at Old River	1081.5	482.5	139.3	1081.5	484.5	139.8
Rock Slough at CC Canal	1117.7	531.3	205.8	1112.3	533.1	205.8
Los Vaqueros Intake	932.4	466.3	122.9	932.9	468.0	123.3
Clifton Court Forebay	824.0	444.2	131.8	821.0	445.5	131.8
Tracy Pumping Plant (DMC)	916.4	478.5	143.7	915.7	479.1	143.7

Table 2 presents a statistical summary of the average, maximum, and minimum percent difference in monthly average EC between the Intertie Project and the baseline simulation at all locations. In general, the Intertie Project is shown to cause a slight increase in EC throughout the Delta, with the largest average changes occurring on Old River. The changes are all less than one percent on a monthly average basis. The maximum monthly changes associated with the project are also summarized in Table 2, but can appear misleading. Considering the operation of the CALSIM II model, and it's associated multi-month impact on boundary flows, focusing on a single month's DSM2 predictions is not always appropriate. A more thorough investigation should include the months preceding and following any large differences in predictions. Results presented in Appendix A will assist with this investigation.

**Table 2. Summary of DSM2 EC Results at Select Locations – Maximum and Average Percent Difference in Monthly Average EC between Project and Baseline Scenario**

Location	2001 (Project – Baseline)		
	Average	Maximum	Minimum
Martinez	0.1	8.7	-6.6
Chipps Island	0.4	28.0	-9.6
Collinsville	0.4	25.6	-8.5
Emmaton	0.4	17.7	-7.4
Rio Vista	0.1	5.5	-4.1
Antioch	0.6	34.4	-16.0
Jersey Point	0.7	41.0	-14.6
Rock Slough at Old River	0.5	22.7	-7.5
CCC	0.5	21.7	-4.7
Los Vaqueros Intake	0.5	14.0	-3.4
Clifton Court	0.4	10.4	-3.4
Tracy (DMC)	0.1	6.7	-3.3

Figures 8 and 9 present results demonstrating changes in predicted X2 position as a result of the Intertie Project. The data used to generate these figures are the results of the Kimmerer-Monismith equation that calculates X2 position based on NDO and antecedent conditions. Average changes in X2 position as a result of the Intertie Project are less than 0.1 kilometers. Figure 8 shows that maximum changes in X2 are on the order of one kilometer. Figure 9 presents a scatter plot allowing for the comparison of the change in X2 to the X2 position in the Baseline simulation before the change. Table 3 presents a tabular summary of the data presented in Figure 8.

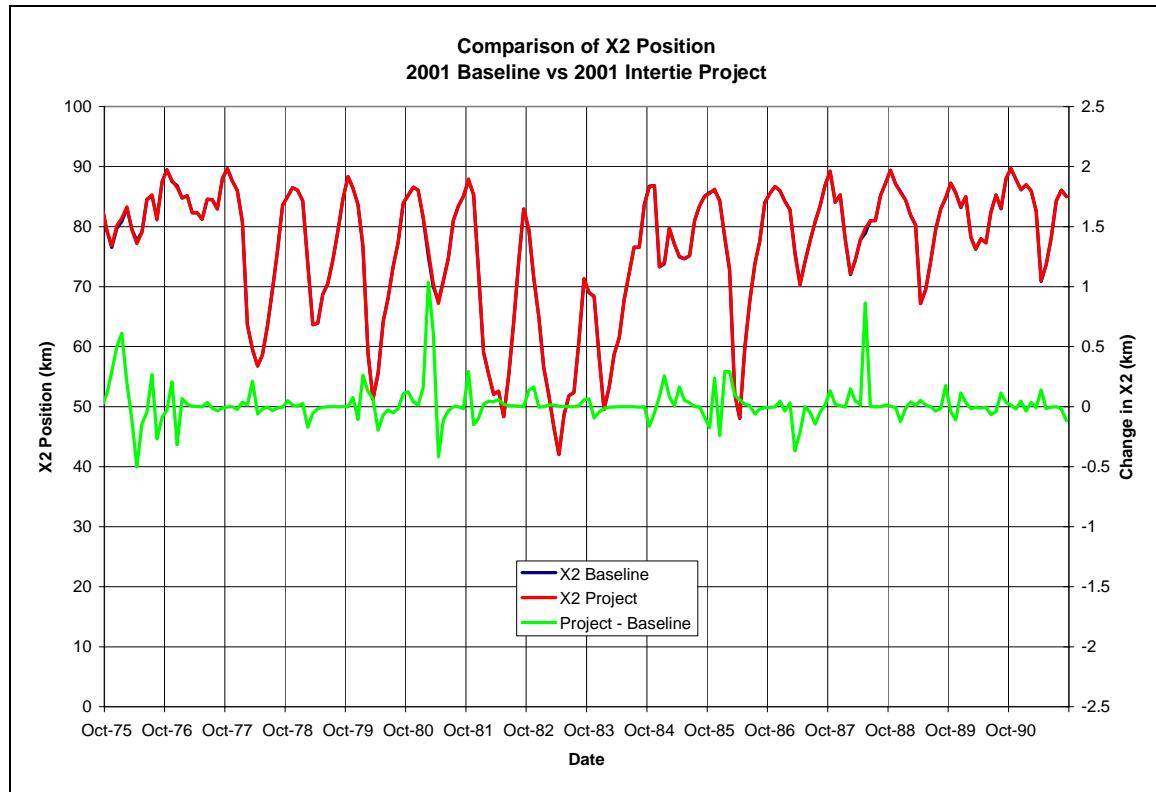


Figure 8. Comparison of X2 Changes with Intertie Project (2001 LOD)

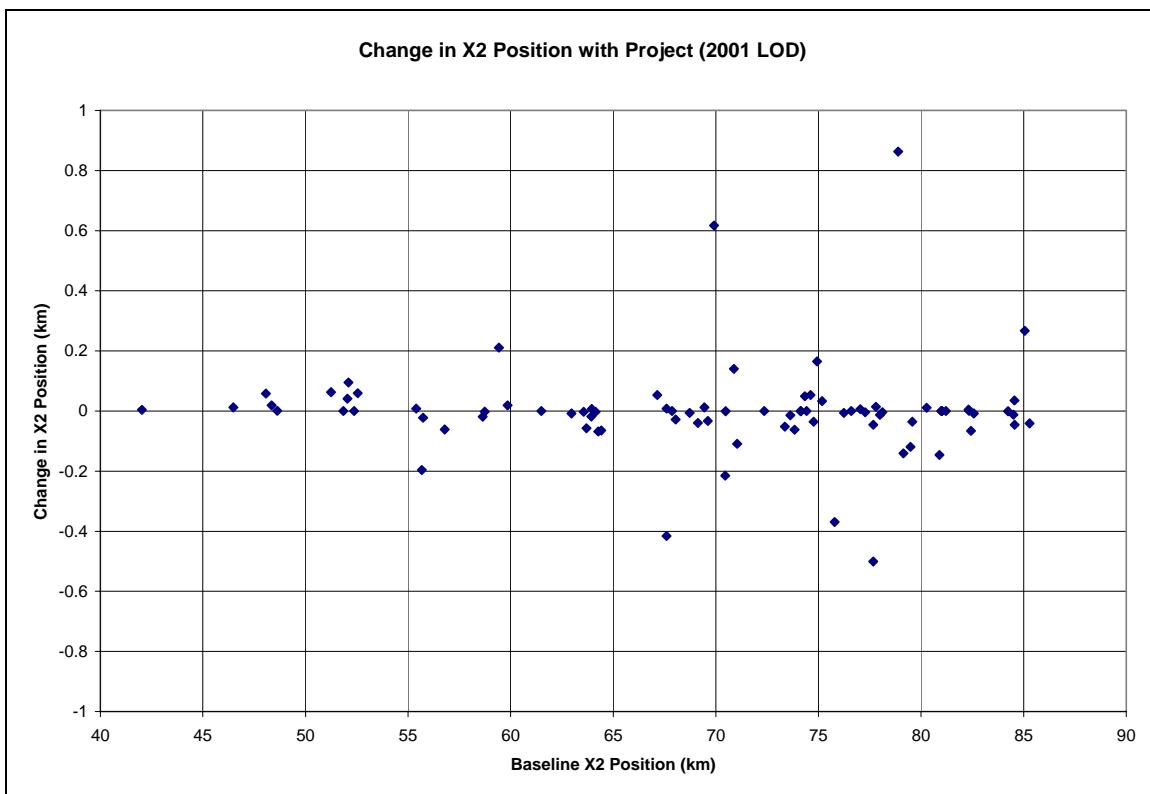


Figure 9. Change in X2 Position with Intertie Project, February through June (2001 LOD)

**Table 3. Difference in X2 Predictions (in kilometers)**  
(2001 Project - 2001 Baseline)

WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1976	0.3	0.5	0.6	0.2	-0.1	-0.5	-0.1	0.0	0.3	-0.3	-0.1	0.0
1977	0.2	-0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
1979	0.0	0.0	0.0	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980	0.1	-0.1	0.3	0.1	0.1	-0.2	-0.1	0.0	-0.1	0.0	0.1	0.1
1981	0.0	0.0	0.2	1.0	0.6	-0.4	-0.1	0.0	0.0	0.0	0.0	0.3
1982	-0.2	-0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
1983	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
1984	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2
1985	-0.1	0.1	0.3	0.1	0.0	0.2	0.1	0.0	0.0	0.0	-0.1	-0.2
1986	0.2	-0.2	0.3	0.3	0.1	0.1	0.0	0.0	-0.1	0.0	0.0	0.0
1987	0.0	0.0	0.0	0.0	-0.4	-0.2	0.0	0.0	-0.1	0.0	0.0	0.1
1988	0.0	0.0	0.0	0.1	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
1989	0.0	-0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0
1990	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.1	0.0	0.0
1991	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	-0.1	0.0
<b>AVG</b>	0.0	0.0	0.1	0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
<b>MAX</b>	0.3	0.5	0.6	1.0	0.6	0.2	0.9	0.0	0.3	0.1	0.2	0.3
<b>MIN</b>	-0.2	-0.3	0.0	-0.2	-0.4	-0.5	-0.1	-0.1	-0.1	-0.3	-0.1	-0.2

## *2020 Level of Development*

This section discusses changes made to DSM2 to simulate impacts associated with the Intertie Project at a 2020 Level-of-Development. Each major boundary condition is presented comparing the baseline conditions to the project conditions. The impacts of these changes are then discussed.

Figures 10 through 13 below present a comparison of the major flow boundary conditions, including exports at Tracy and Banks, and flows on the Sacramento and San Joaquin Rivers, respectively. In general, average exports at Tracy are increased as a result of the project, while exports at Banks are slightly reduced. Figure 14 presents the effect on Net Delta Outflow of these changes and those on the Sacramento and San Joaquin Rivers.

Since the Martinez EC boundary condition is calculated using NDO, and changes to NDO will affect the EC at Martinez and thus the EC throughout the majority of the Delta. Figures 15 and 16 summarize the changes in simulated EC throughout the Delta as a result of the Intertie Project. Figure 15 presents results at Martinez, Collinsville, Emmaton, Rio Vista, Antioch, and Jersey Point. Water Year 1981 changes in EC at Martinez approach 1000  $\mu\text{mhos}/\text{cm}$ , and decrease in magnitude as the water filters through the Delta. At Jersey Point, the changes have been reduced by a factor of four. Still, the Martinez EC has a far-reaching influence on EC throughout the Delta, including the South Delta. Figure 16 presents results in the southern Delta, including Rock Slough at Old River, Rock Slough at Contra Costa Canal, Old River at SR4, Clifton Court Forebay, and Tracy pumping Plant. Peak changes in EC in the South Delta are approximately 90  $\mu\text{mhos}/\text{cm}$ .

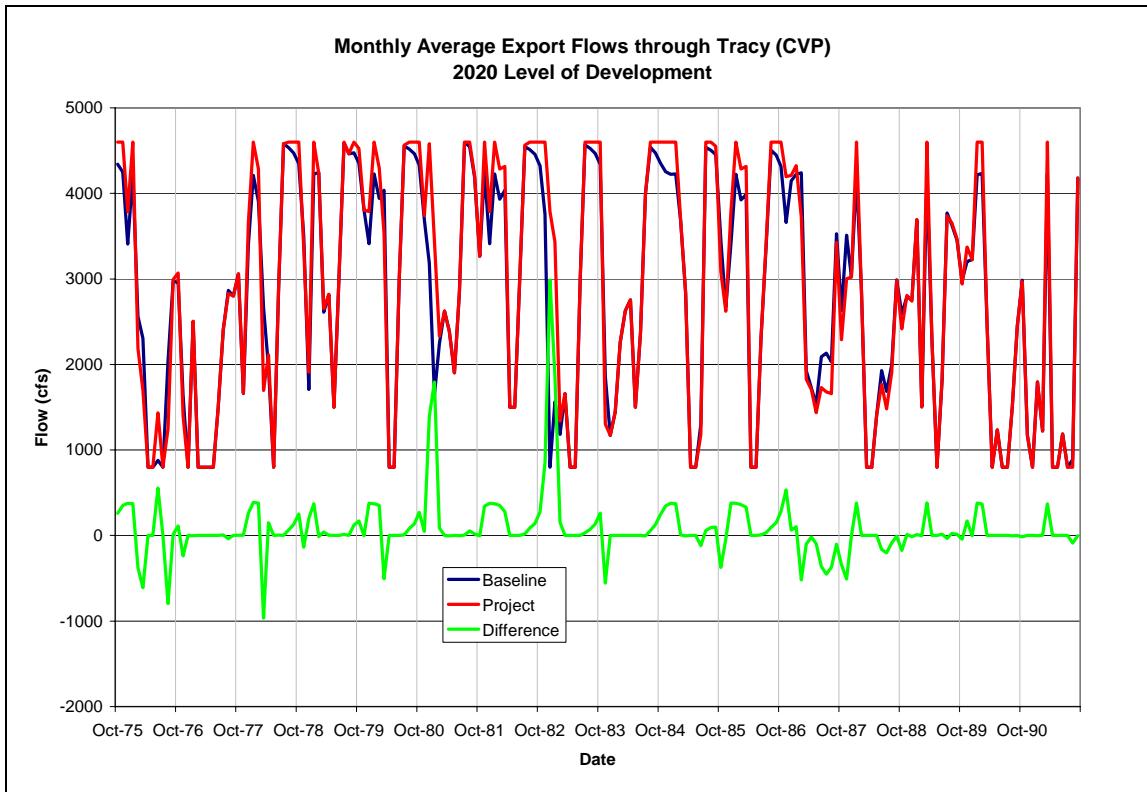


Figure 10. Comparison of Baseline and Project Flows at Tracy (2020 LOD)

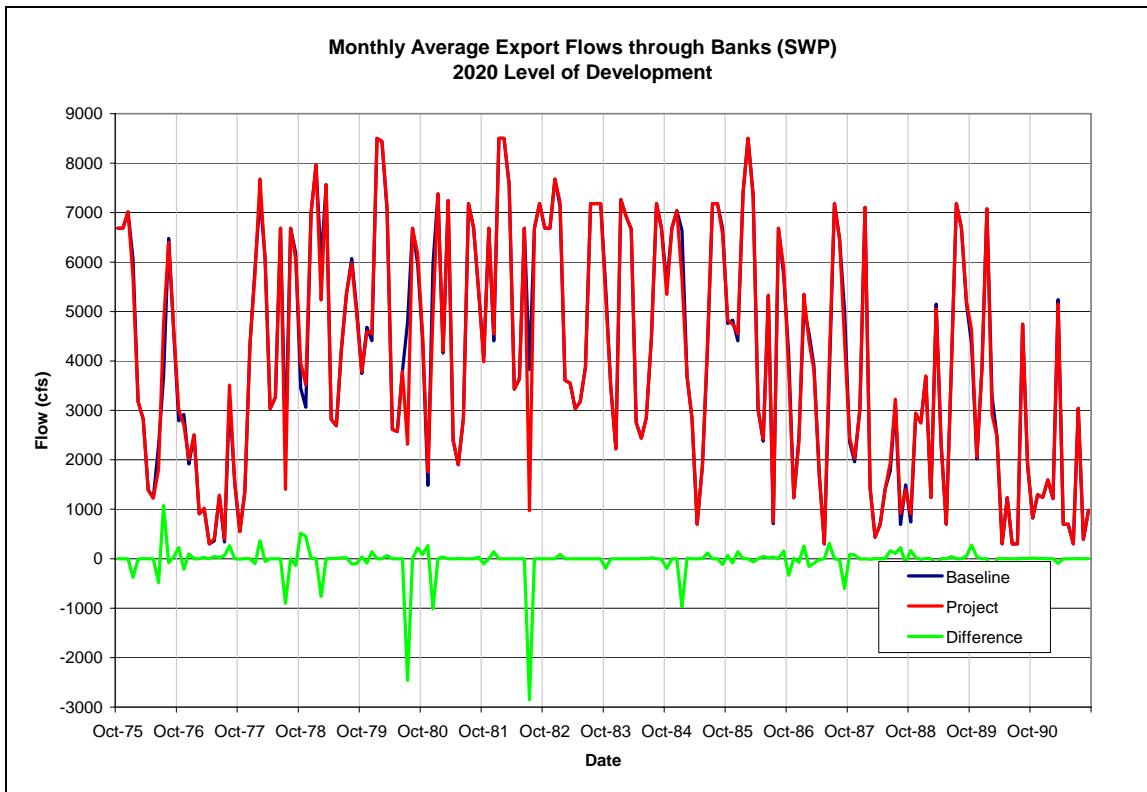


Figure 11. Comparison of Baseline and Project Flows at Banks (2020 LOD)

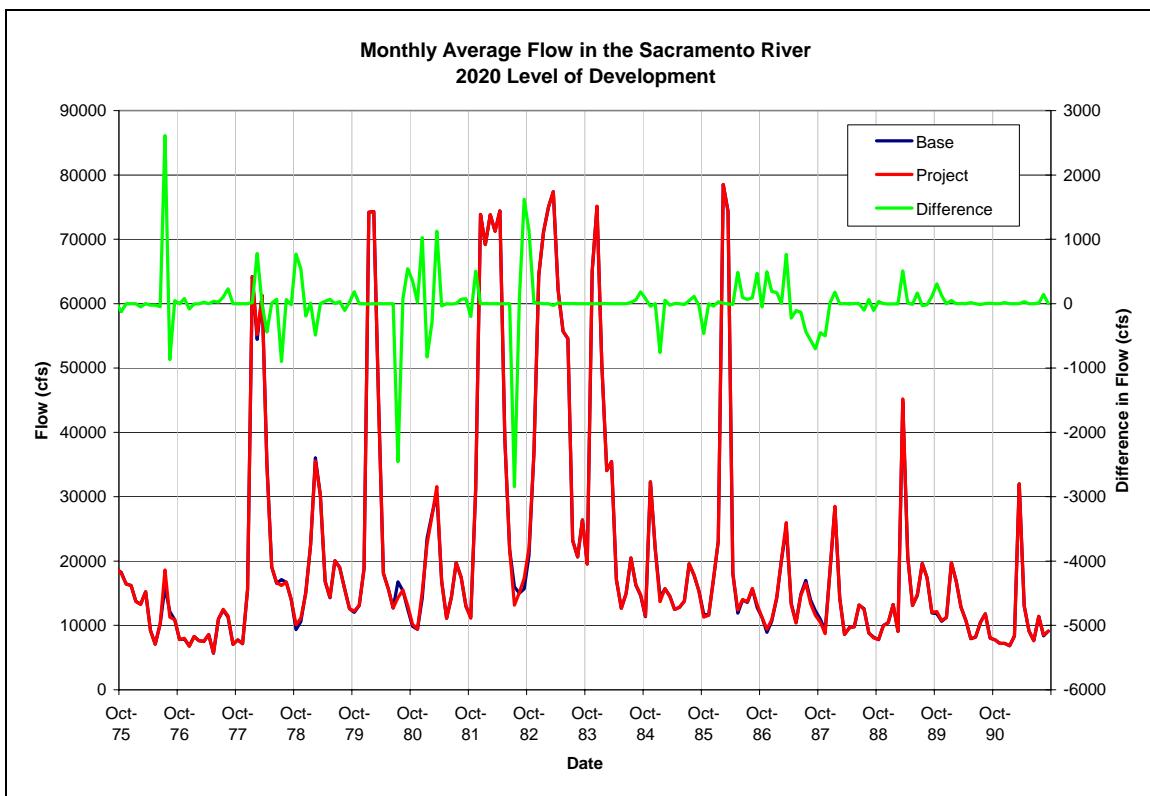


Figure 12. Comparison of Baseline and Project Flows, Sacramento River (2020 LOD)

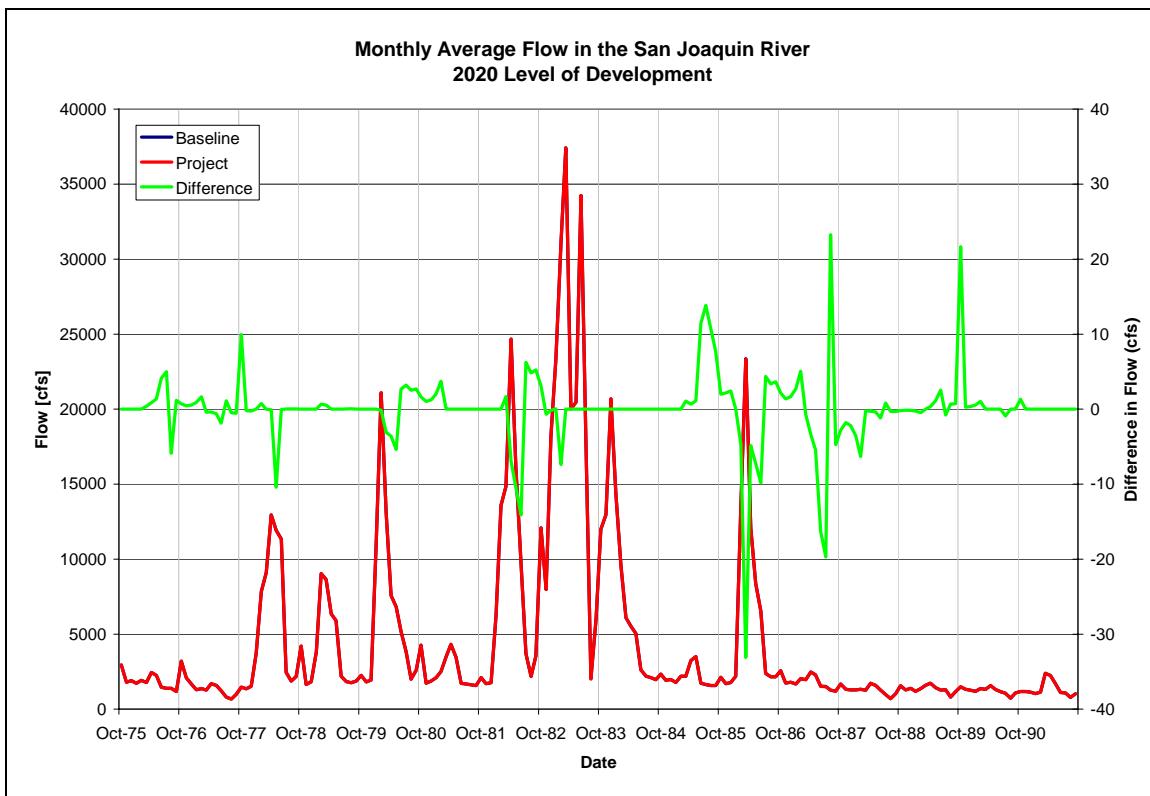


Figure 13. Comparison of Baseline and Project Flows, San Joaquin River (2020 LOD)

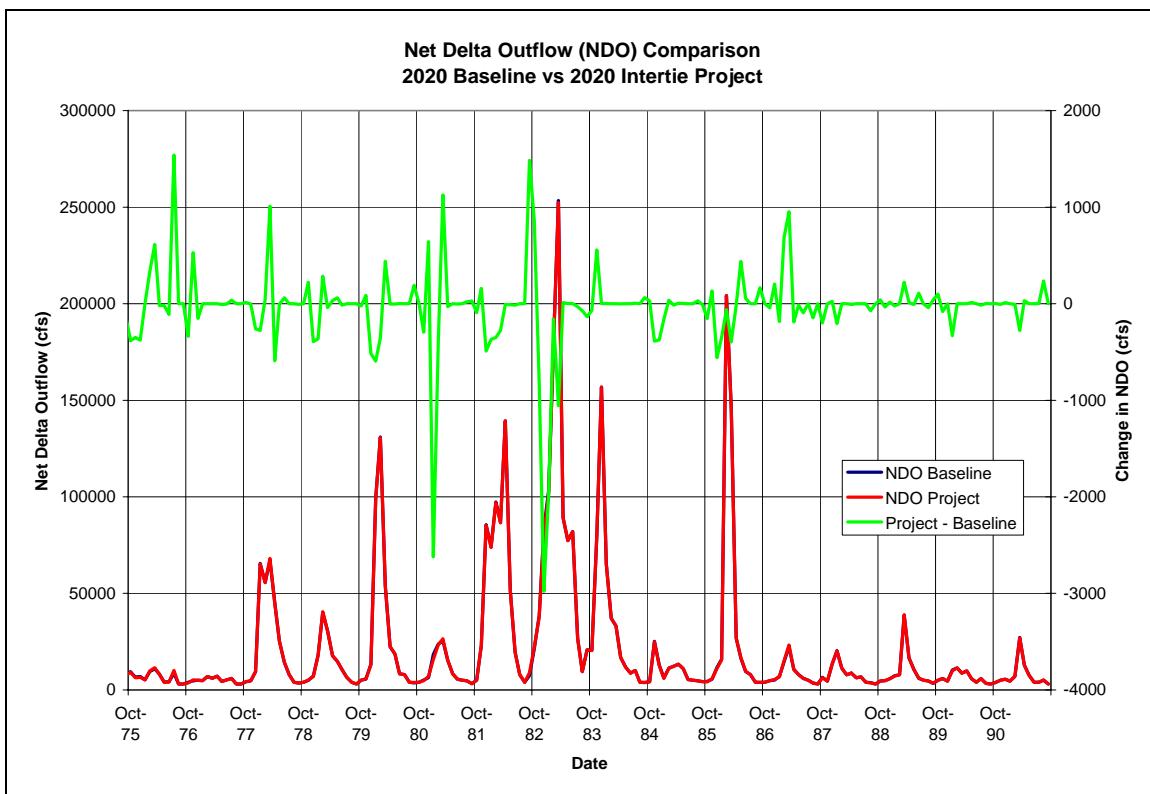


Figure 14. Comparison of Baseline and Project Flows, Net Delta Outflow (2020 LOD)

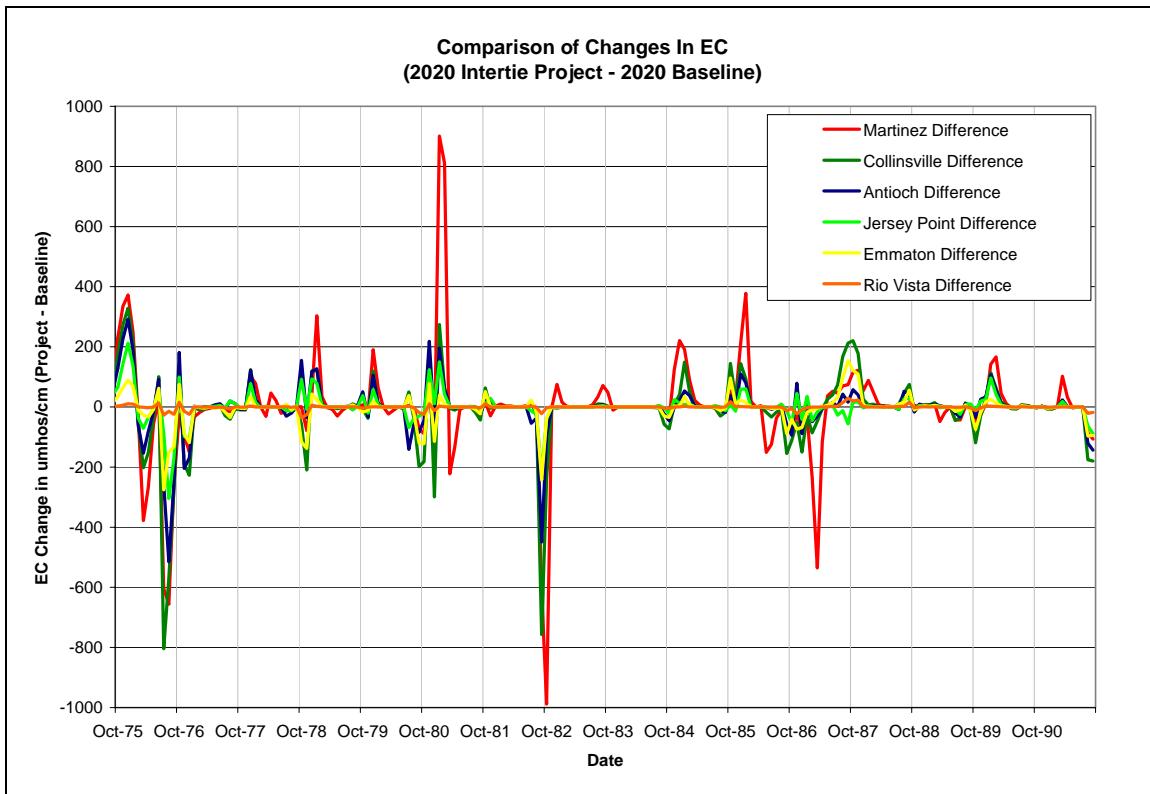


Figure 15. Comparison of EC Changes with Intertie Project, West Delta (2020 LOD)

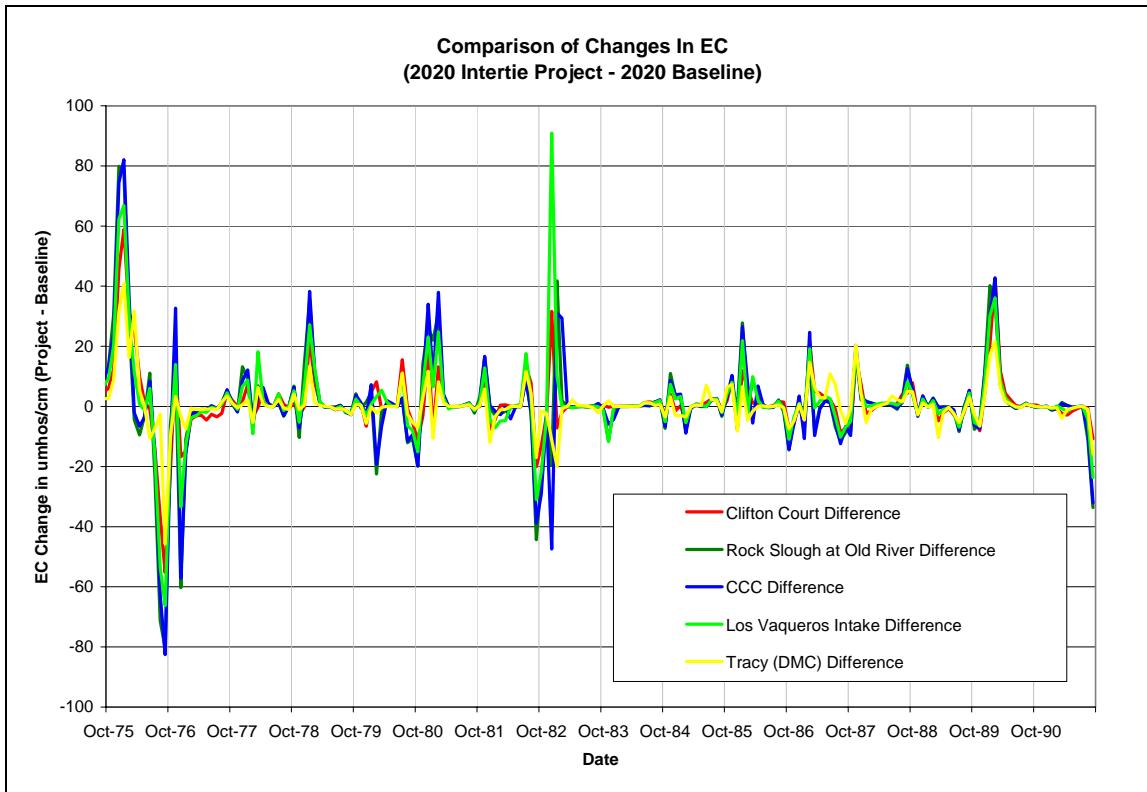


Figure 16. Comparison of EC Changes with Intertie Project, South Delta (2020 LOD)

Table 4 presents a summary of monthly EC values at select locations throughout the Delta. The statistics were performed on monthly average EC values from the 16-year simulation. The maximum, minimum, and average monthly EC values are presented for the Baseline and Intertie Project simulations. A more in-depth analysis of variations in model results for the project alternatives is presented in Appendix B. Time series comparison plots were generated with model results from water years 1976 through 1991. These plots, as well as summary tabulations of model results, are compiled in Appendix B.

**Table 4. Summary of Monthly EC at Select Locations throughout Delta (2020 LOD)**

	Baseline			Intertie Project		
	Maximum	Average	Minimum	Maximum	Average	Minimum
Martinez	23487.4	15663.8	189.7	23520.4	15661.8	189.7
Chipps Island	13184.8	5807.8	171.0	13251.4	5798.2	171.0
Collinsville	9830.2	3880.7	171.6	9940.2	3870.9	171.5
Emmaton	3662.3	1109.6	174.2	3737.2	1104.4	174.2
Rio Vista	720.5	287.3	176.4	733.2	286.4	176.4
Antioch	5648.2	2073.2	164.1	5658.8	2071.6	164.1
Jersey Point	3146.1	1083.6	161.1	3089.8	1084.8	161.1
Rock Slough at Old River	1090.1	482.5	139.6	1090.9	483.4	139.8
Rock Slough at CC Canal	1112.9	539.2	199.0	1114.1	540.0	199.0
Los Vaqueros Intake	939.6	466.9	124.5	940.8	468.5	124.3
Clifton Court Forebay	807.3	445.9	127.8	809.4	447.0	125.7
Tracy Pumping Plant (DMC)	922.2	482.1	144.0	921.1	482.6	140.9

Table 5 presents a statistical summary of the average, maximum, and minimum percent difference in monthly average EC between the Intertie Project and the baseline simulation at all locations. In general, the Intertie Project is shown to cause a slight increase in EC throughout the Delta, with the largest average changes occurring on Old River. The changes are all less than one percent on a monthly average basis. The maximum monthly changes associated with the project are also summarized in Table 5, but can appear misleading. Considering the operation of the CALSIM II model, and it's associated multi-month impact on boundary flows, focusing on a single month's DSM2 predictions is not always appropriate. A more thorough investigation should include the months preceding and following any large differences in predictions. Results presented in Appendix B will assist with this investigation.

**Table 5. Summary of DSM2 EC Results at Select Locations – Maximum and Average Percent Difference in Monthly Average EC between Project and Baseline Scenario**

Location	2020 (Project – Baseline)		
	Average	Maximum	Minimum
Martinez	0.1	9.1	-8.4
Chipps Island	0.0	19.3	-31.7
Collinsville	0.0	16.2	-36.5
Emmaton	0.0	13.7	-28.7
Rio Vista	-0.2	6.0	-10.4
Antioch	0.2	19.7	-29.5
Jersey Point	0.4	23.6	-21.2
Rock Slough at Old River	0.4	20.2	-14.7
CCC	0.3	17.2	-13.3
Los Vaqueros Intake	0.6	45.4	-12.4
Clifton Court	0.4	22.6	-9.3
Tracy (DMC)	0.1	7.0	-8.4

Figures 17 and 18 present results demonstrating changes in predicted X2 position as a result of the Intertie Project. The data used to generate these figures are the results of the Kimmerer-Monismith equation that calculates X2 position based on NDO and antecedent conditions. Average changes in X2 position as a result of the Intertie Project are less than 0.1 kilometers. Figure 17 shows that maximum changes in X2 are on the order of one kilometer. Figure 18 presents a scatter plot allowing for the comparison of the change in X2 to the X2 position in the Baseline simulation before the change. Table 6 presents a tabular summary of the data presented in Figure 8.

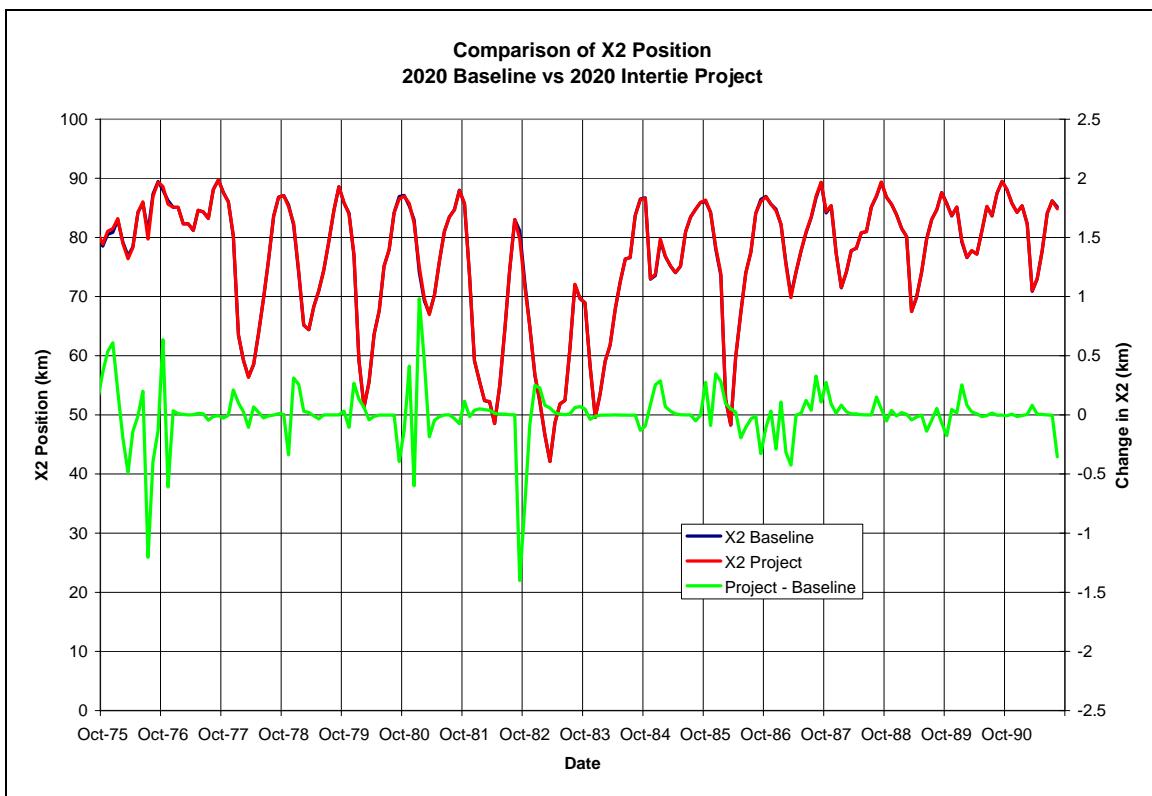


Figure 17. Comparison of X2 Changes with Intertie Project (2020 LOD)

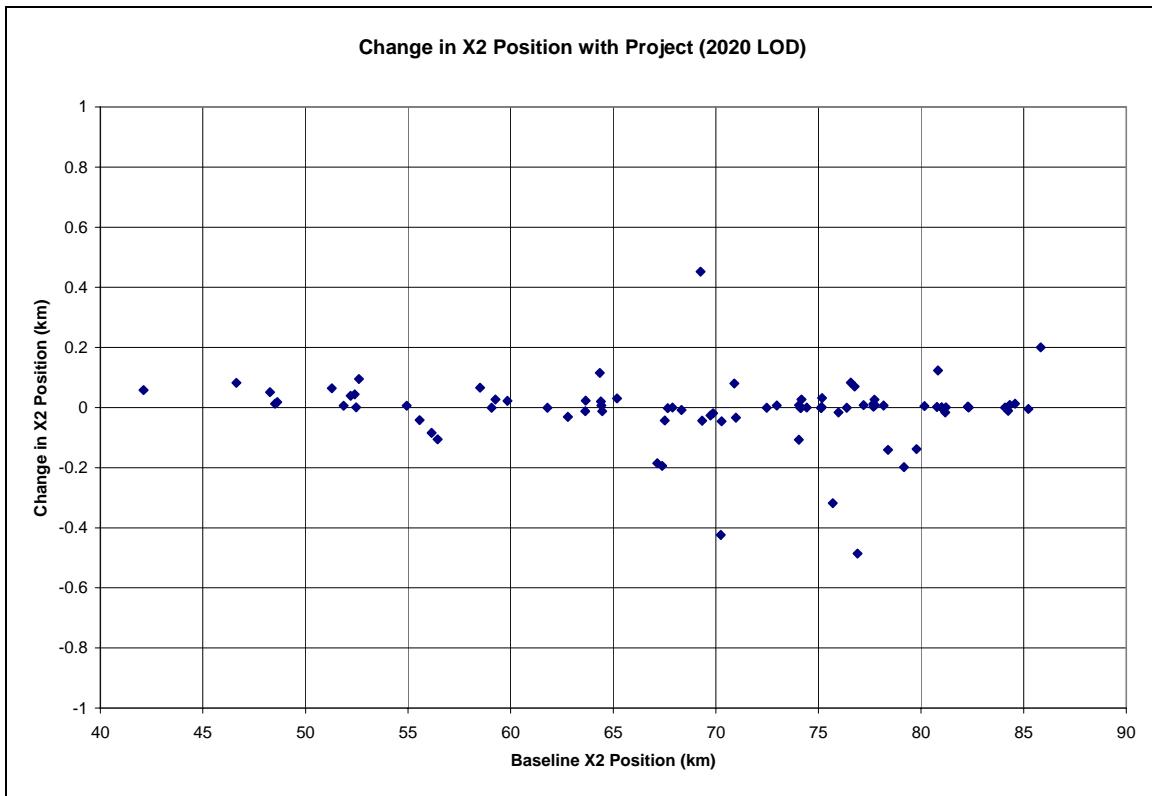


Figure 18. Change in X2 Position with Intertie Project, February through June (2020 LOD)

**Table 6. Difference in X2 Predictions (in kilometers)**  
 (2020 Project - 2020 Baseline)

WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1976	0.4	0.5	0.6	0.2	-0.2	-0.5	-0.1	0.0	0.2	-1.2	-0.4	-0.1
1977	0.6	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978	0.0	0.0	0.2	0.1	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0
1979	0.0	-0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980	0.0	-0.1	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4
1981	-0.1	0.4	-0.6	1.0	0.5	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1
1982	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.4
1983	-0.8	-0.1	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
1985	-0.1	0.1	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986	0.3	-0.1	0.3	0.3	0.1	0.1	0.0	-0.2	-0.1	0.0	0.0	-0.3
1987	-0.1	0.0	-0.3	0.1	-0.3	-0.4	0.0	0.0	0.1	0.0	0.3	0.1
1988	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
1989	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.1	-0.1
1990	-0.2	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1991	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	-0.4	0.0
<b>AVG</b>	0.0	0.0	0.1	0.2	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	-0.1
<b>MAX</b>	0.6	0.5	0.6	1.0	0.5	0.1	0.1	0.0	0.2	0.0	0.3	0.1
<b>MIN</b>	-0.8	-0.6	-0.6	0.0	-0.3	-0.5	-0.1	-0.2	-0.1	-1.2	-0.4	-1.4

## Conclusions

The Delta Simulation Model was used to predict changes in Delta water quality associated with changes in CALSIM II simulated flow patterns in the Delta caused by the DMC-CA Intertie Project. The comparative nature of this analysis is appropriate for impact studies, for although the DSM2 model may not predict existing conditions with complete accuracy, the consistent nature in which the simulations were developed allows for an adequate estimate of project impacts.

Tables 2 and 5 presents a summary of average monthly percentage changes in EC at 12 locations throughout the Delta for the project alternative as compared to the baseline alternative. Average monthly changes in EC are less than 1 percent at all locations, and only greater than 0.5% on the San Joaquin River and Old River. Average monthly differences for the 2001 Level-of-Development are 0.1% at Martinez, Rio Vista, and Tracy. Changes are slightly higher (0.5%) in Old River and in Rock Slough. The largest average monthly percent change occurred at Jersey Point (0.7%).

For the 2020 Level-of-Development simulations, results were similar to the 2001 Level-of-Development. Changes were generally smaller in 2020, ranging from an increase of 0.6 percent on average at Los Vaqueros Intake, to a decrease of 0.2 percent at Rio Vista. The improvement in water quality at Rio Vista is likely associated with increased flows down the Sacramento River in the 2020 Project Alternative.

Detailed monthly comparisons of differences in EC between the project alternative and the baseline alternative are presented in Appendix A for the 2001 Level-of-demand and in Appendix B for the 2020 Level-of-demand.

## **Appendix A. Summary Tables of Differences in EC between Intertie Project Alternative and Baseline Simulation (2001 Level-of-Development)**

This appendix contains graphical and tabular summaries of differences in predicted EC between the Intertie project alternative and the baseline simulation (2001 conditions) at the following locations in the Delta:

- Martinez
- Collinsville
- Emmaton
- Rio Vista
- Antioch
- Jersey Point
- Rock Slough at Old River
- Rock Slough at Contra Costa Canal
- Old River at State Highway 4 (Los Vaqueros Intake)
- Clifton Court Forebay
- Tracy Pumping Plant (Head of Delta-Mendota Canal)

There are two summary tables for each location comparing the Intertie project alternative to the Baseline alternative. Each set of tables summarizes the actual difference in EC, and the percent difference in EC between two simulations on a monthly basis. Summary tables are generated for water years 1976 through 1991. These tables were generated to allow for the determination of seasonal differences in changes in EC throughout the Delta associated with the project alternative.

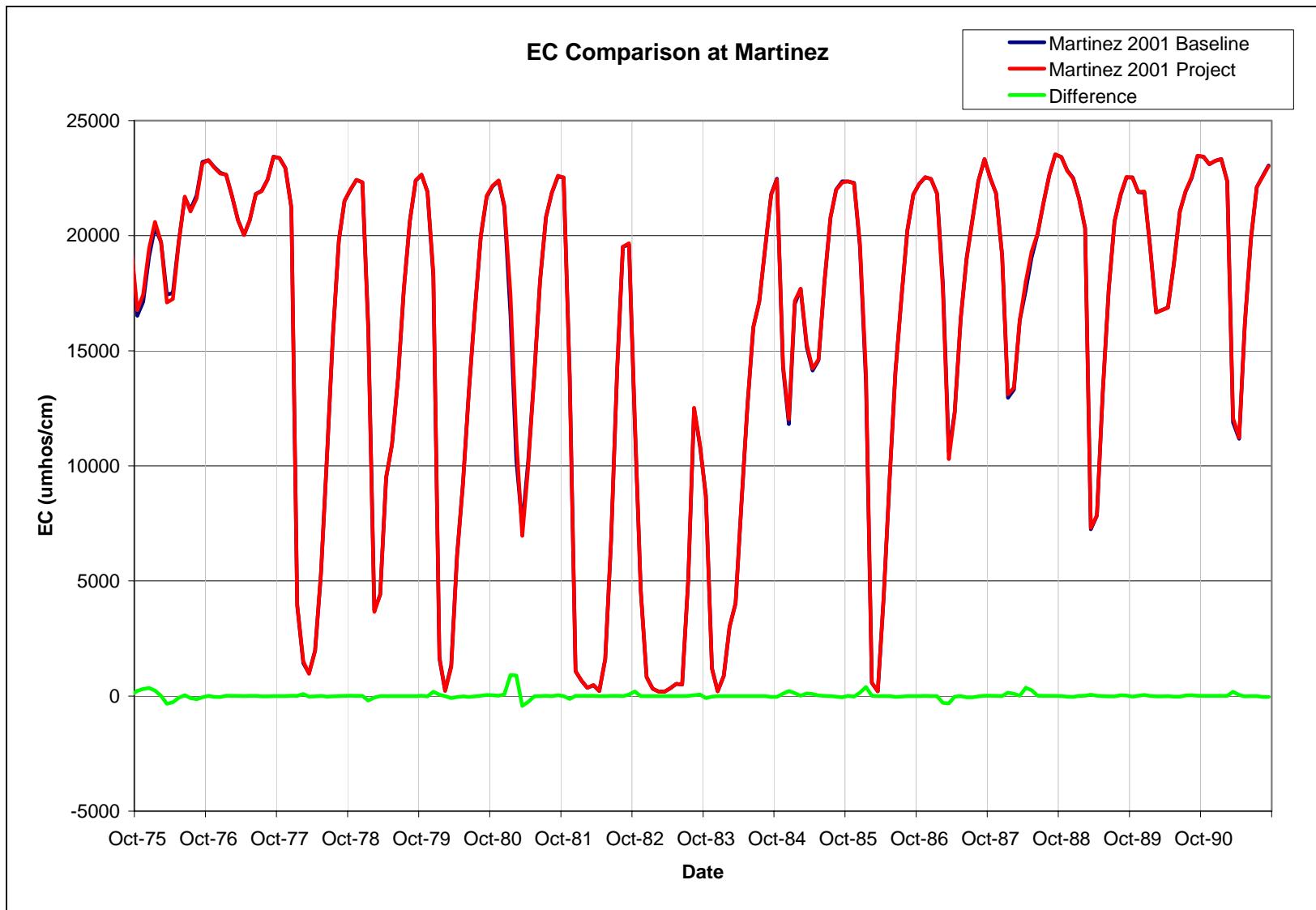


Figure A-1. EC Comparison at Martinez (2001 Conditions)

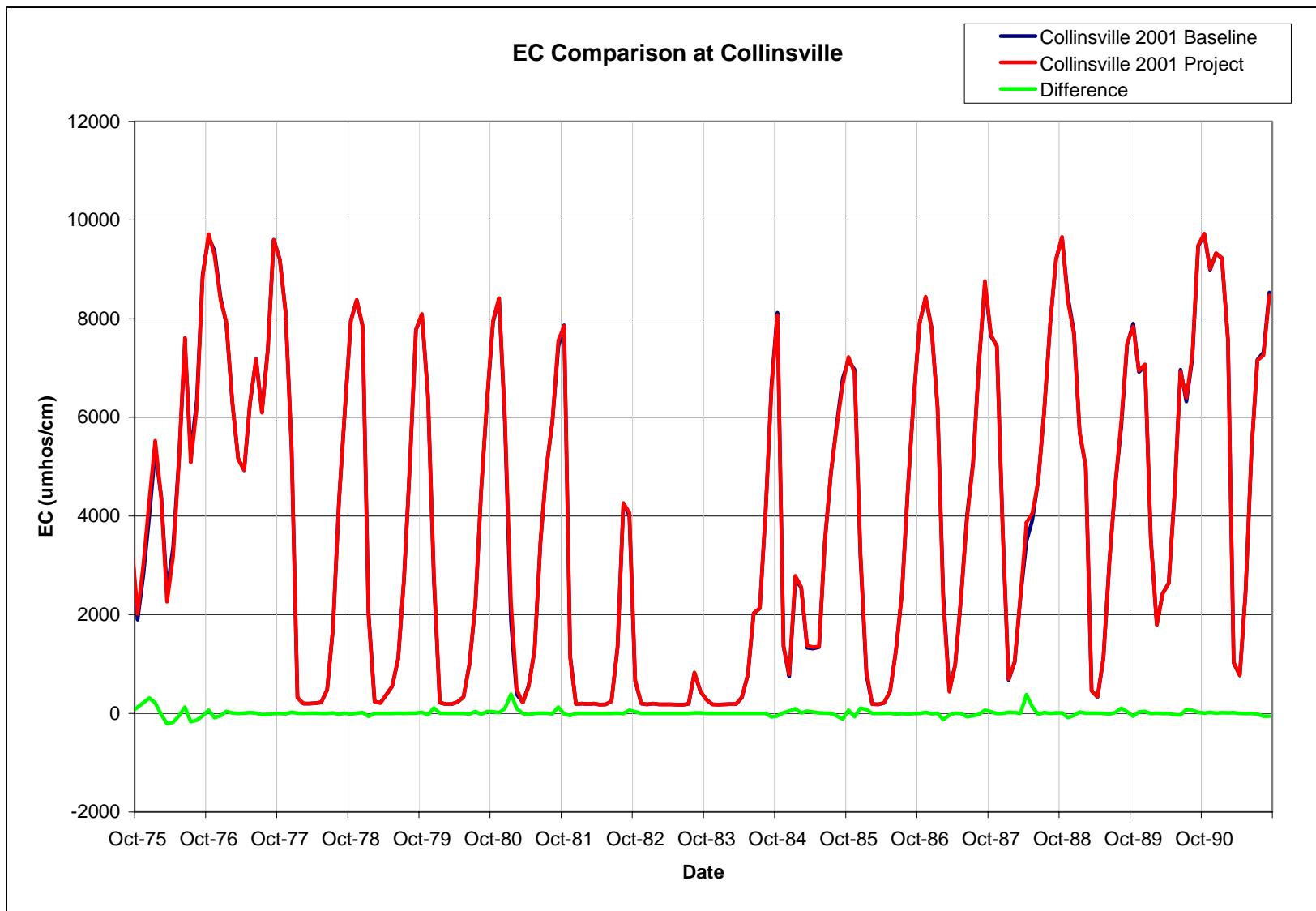


Figure A-2. EC Comparison at Collinsville (2001 Conditions)

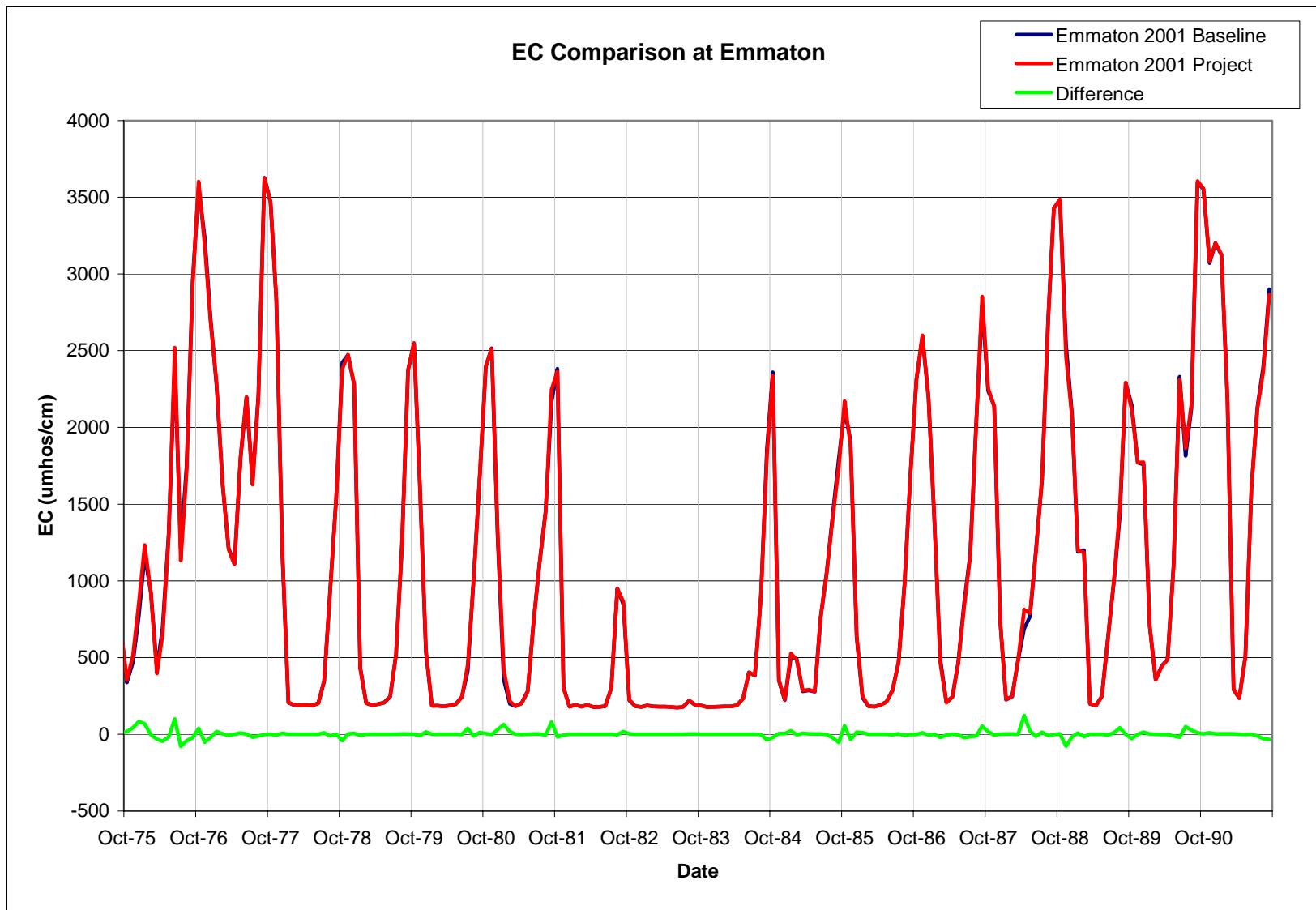


Figure A-3. EC Comparison at Emmaton (2001 Conditions)

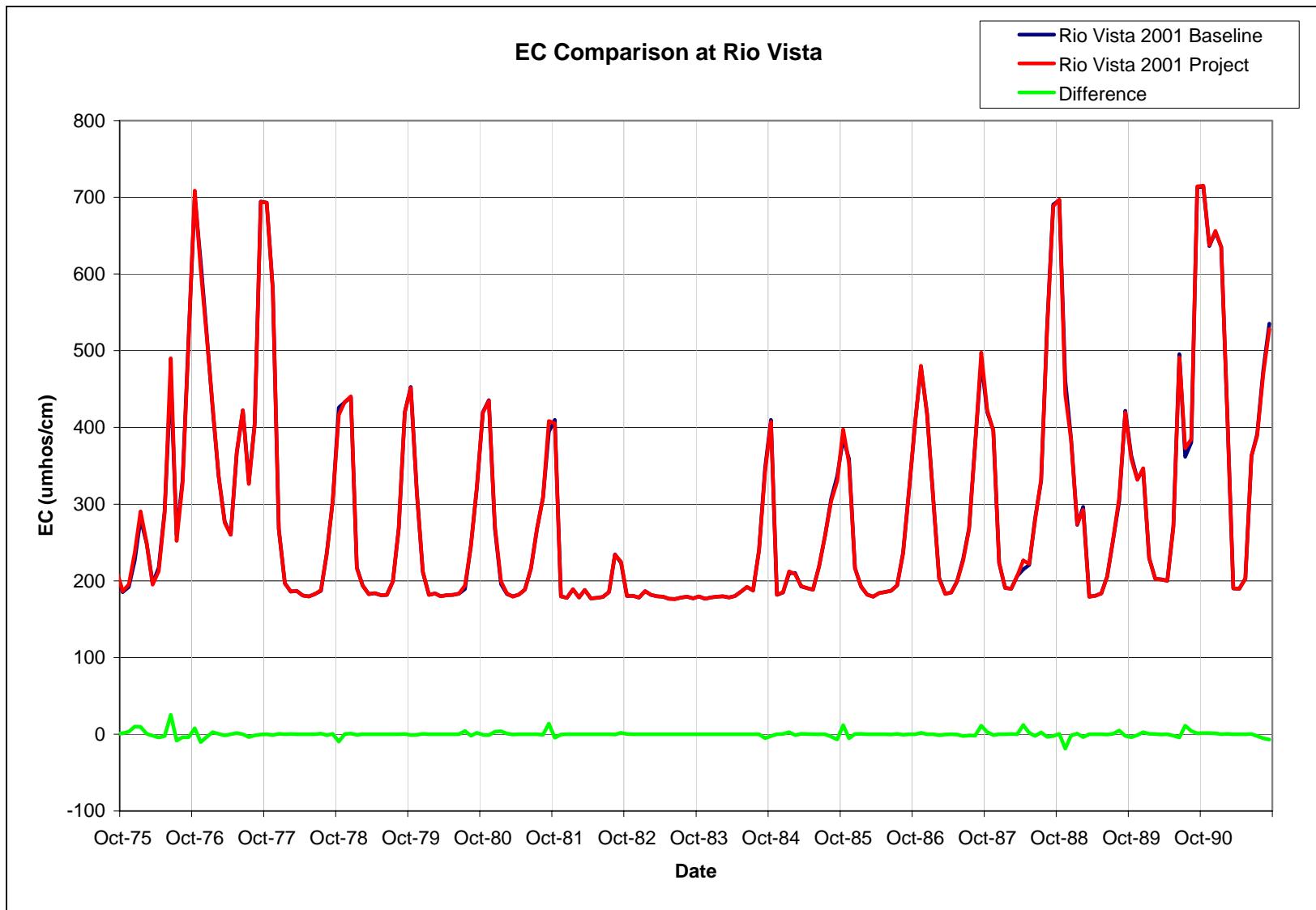


Figure A-4. EC Comparison at Rio Vista (2001 Conditions)

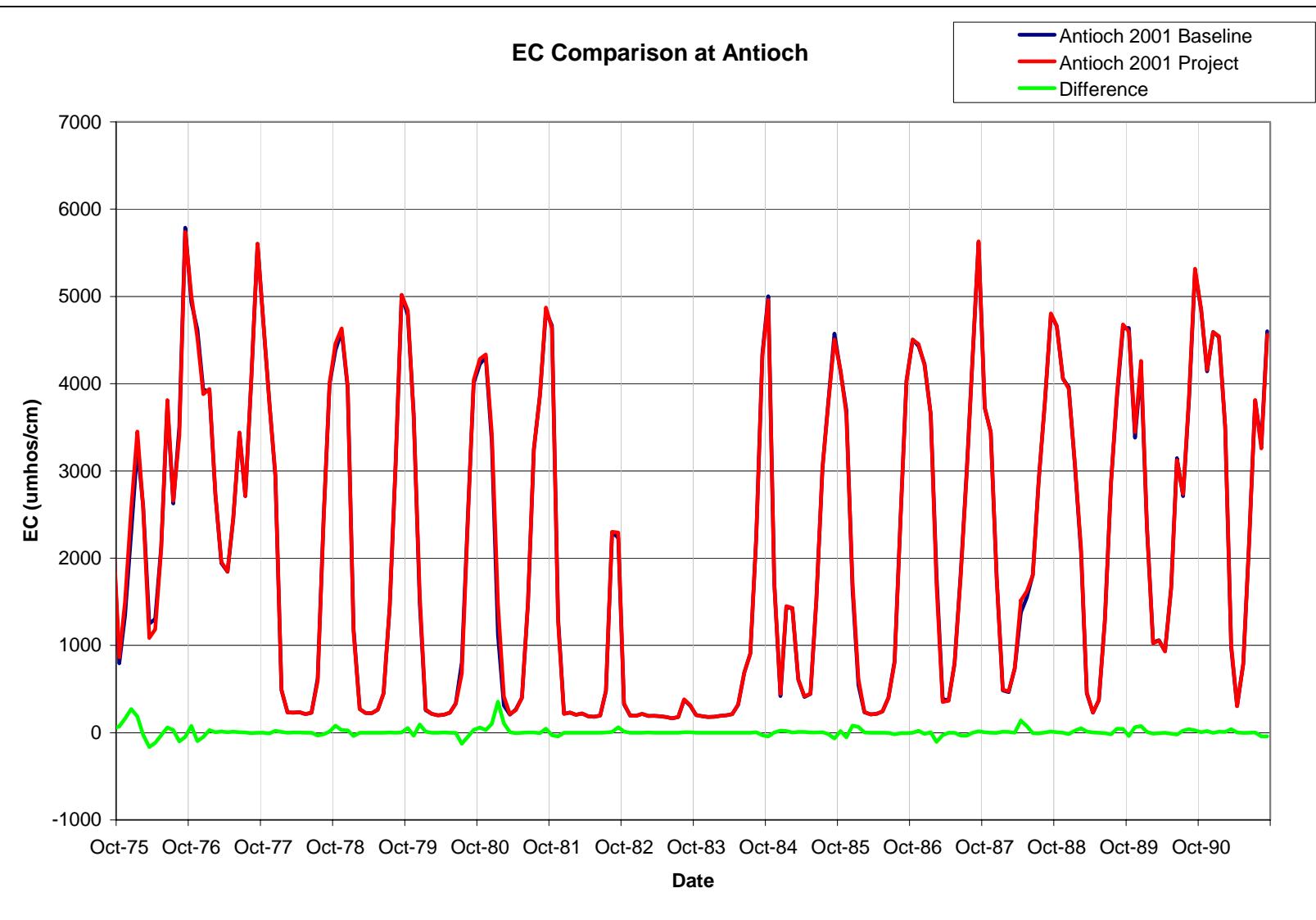


Figure A-5. EC Comparison at Antioch (2001 Conditions)

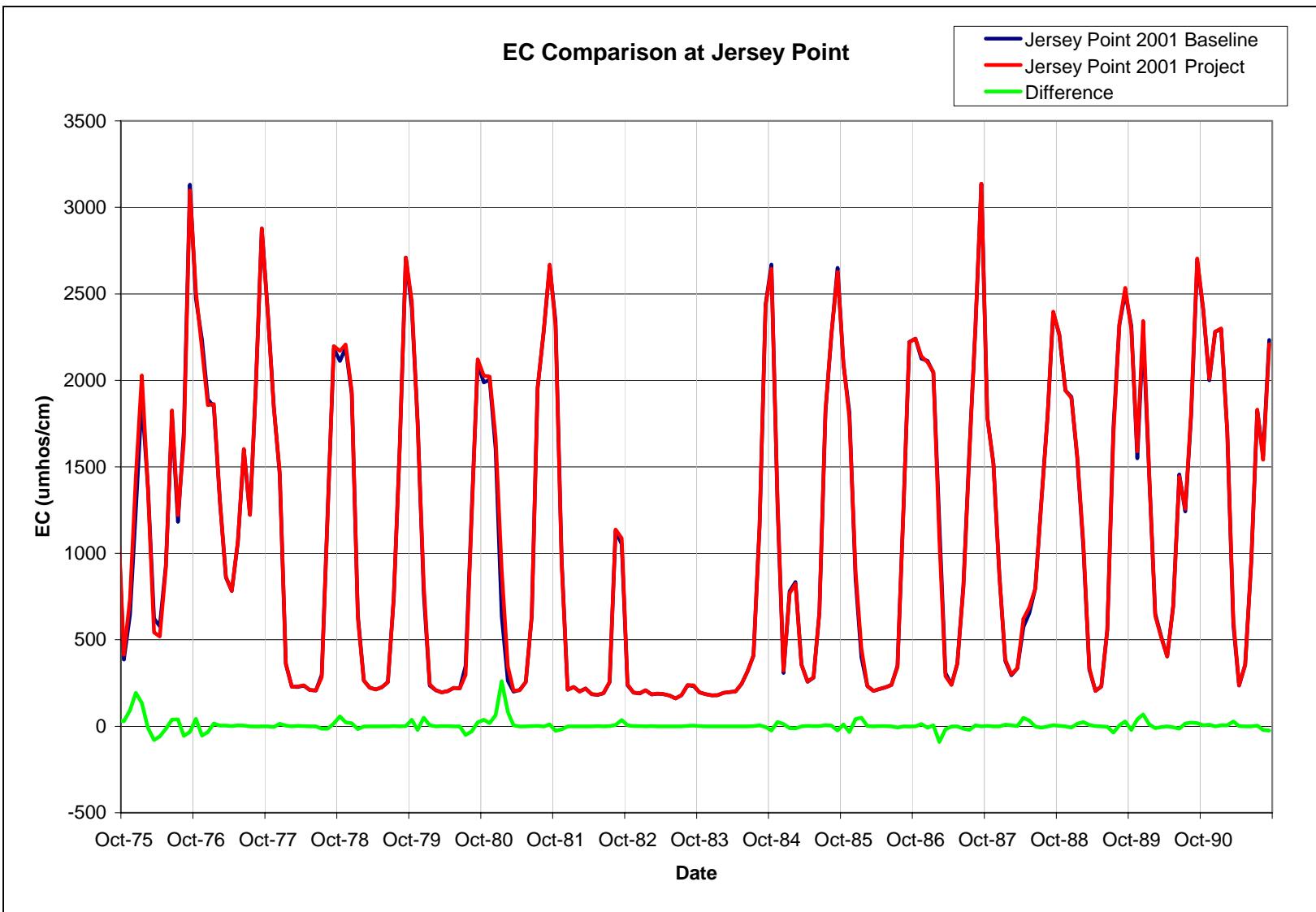


Figure A-6. EC Comparison at Jersey Point (2001 Conditions)

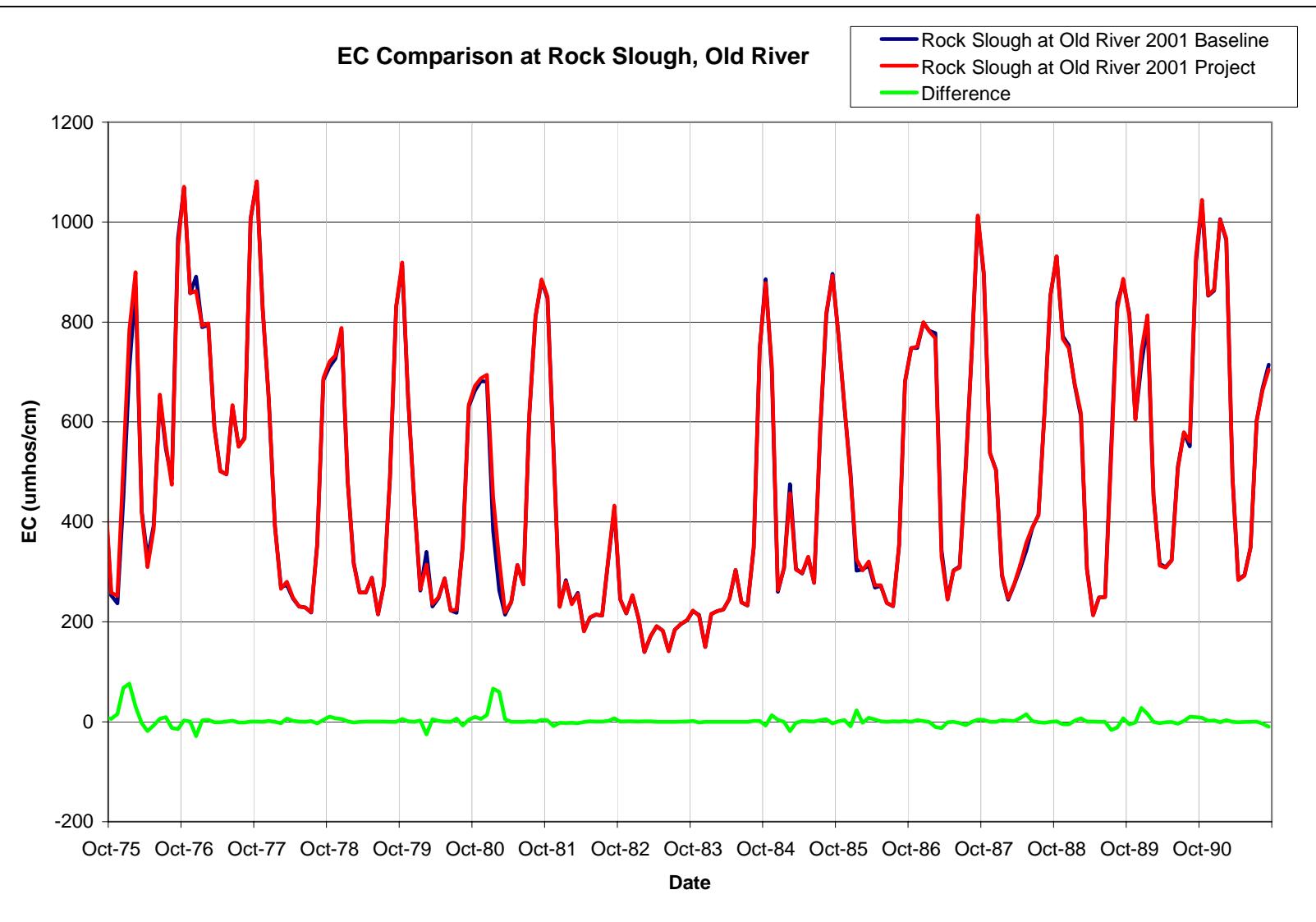


Figure A-7. EC Comparison at Rock Slough, Old River (2001 Conditions)

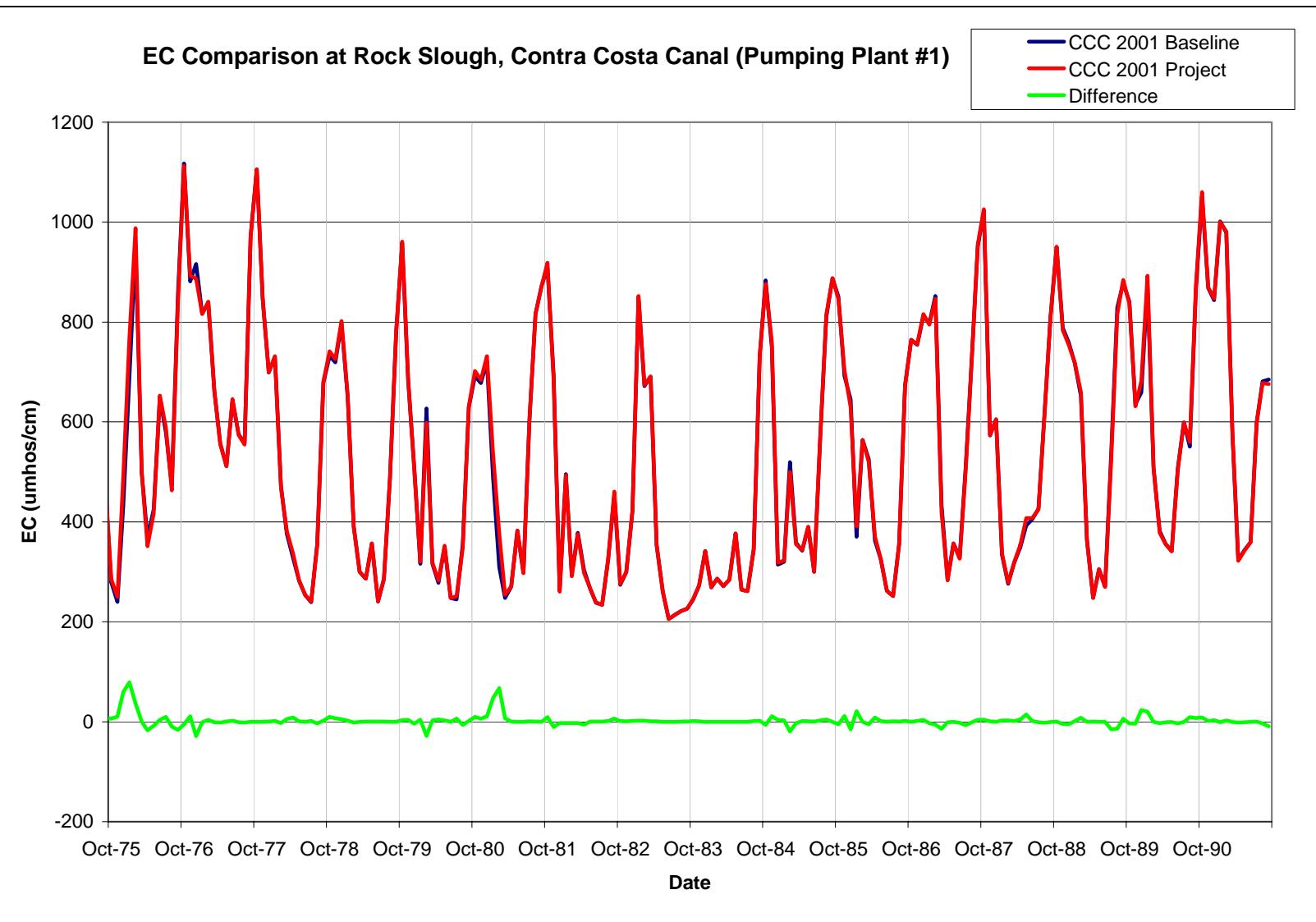


Figure A-8. EC Comparison at Rock Slough, Contra Costa Canal (2001 Conditions)

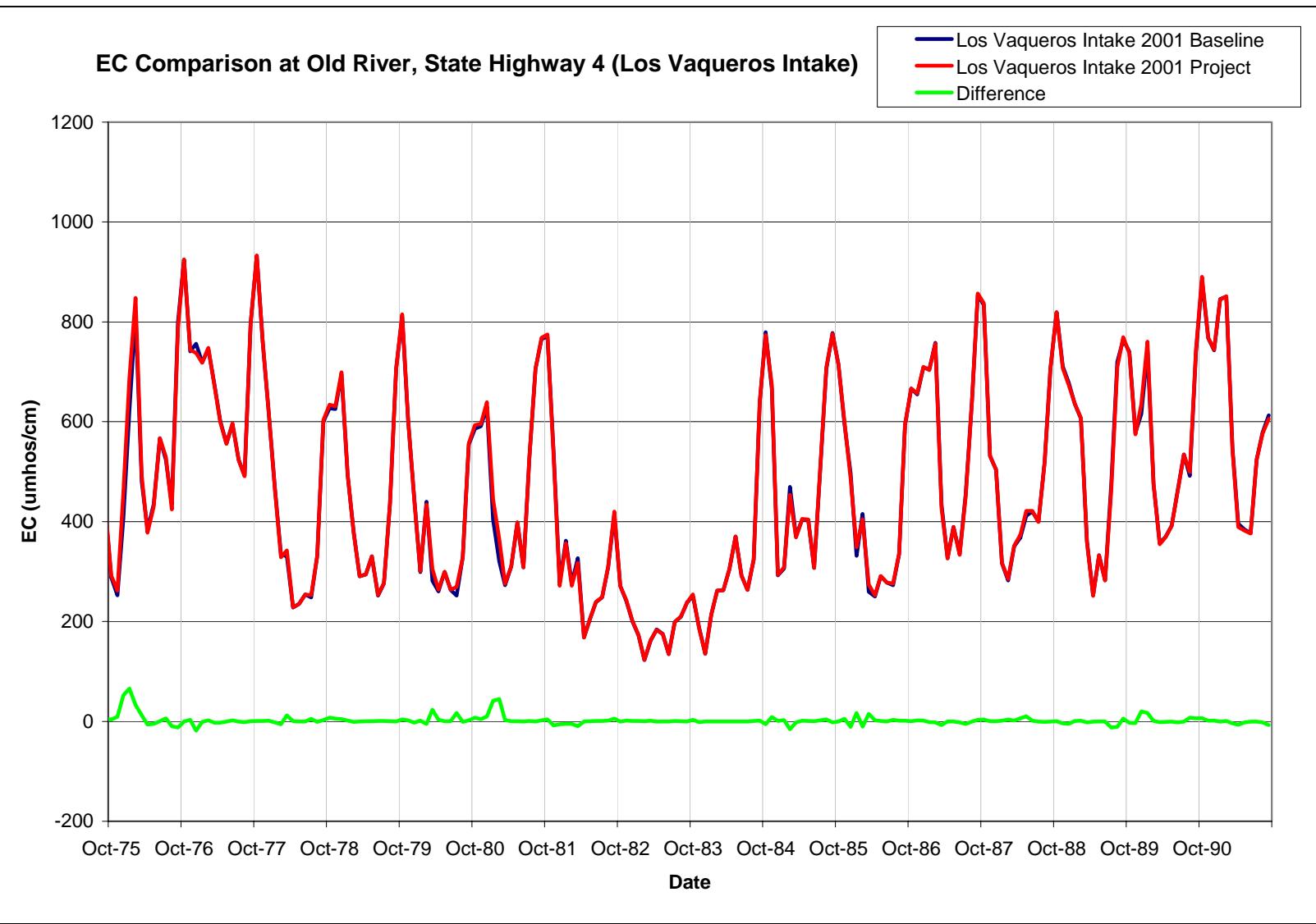


Figure A-9. EC Comparison at Old River, State Highway 4 / Los Vaqueros Intake (2001 Conditions)

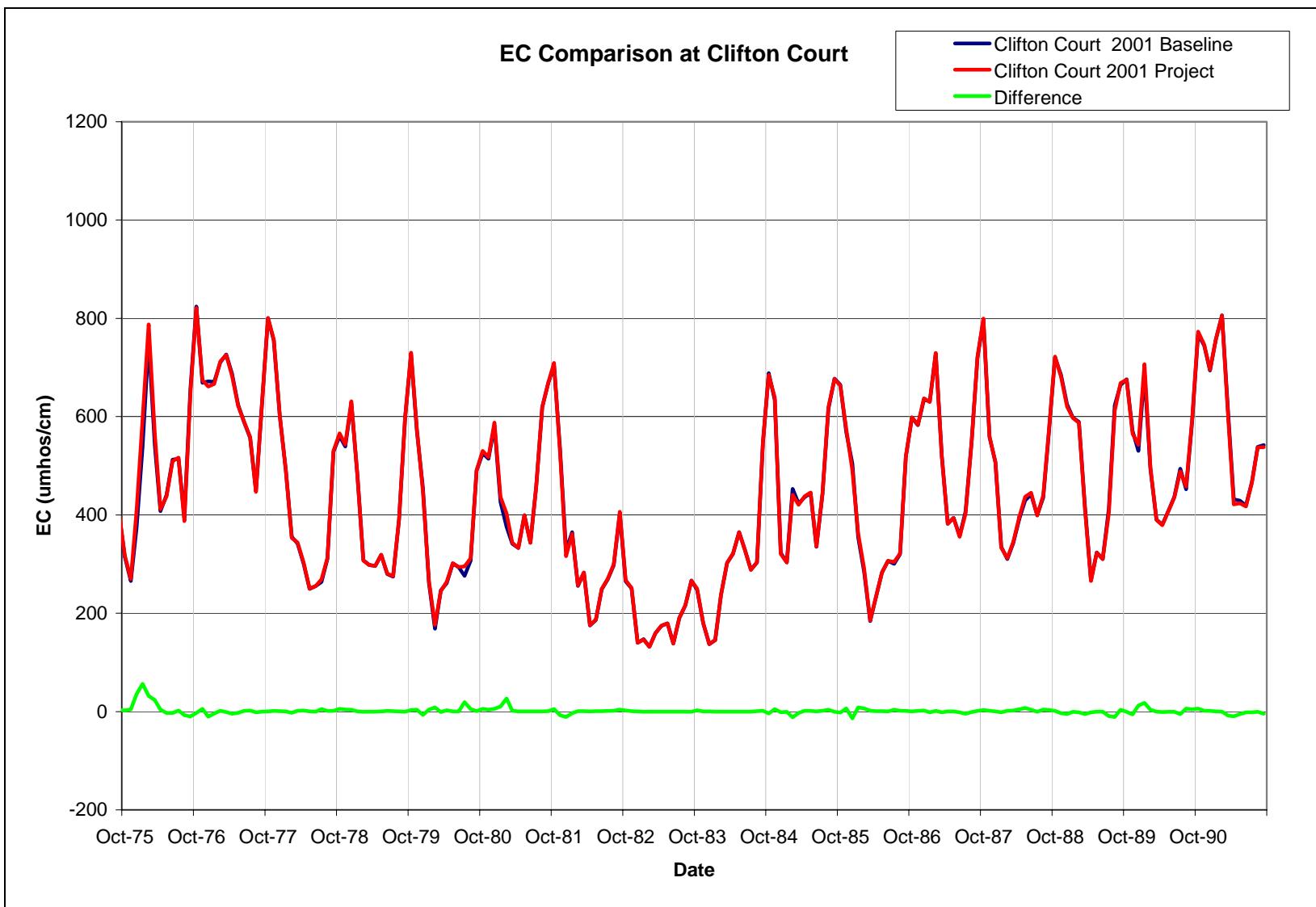


Figure A-10. EC Comparison at Clifton Court (2001 Conditions)

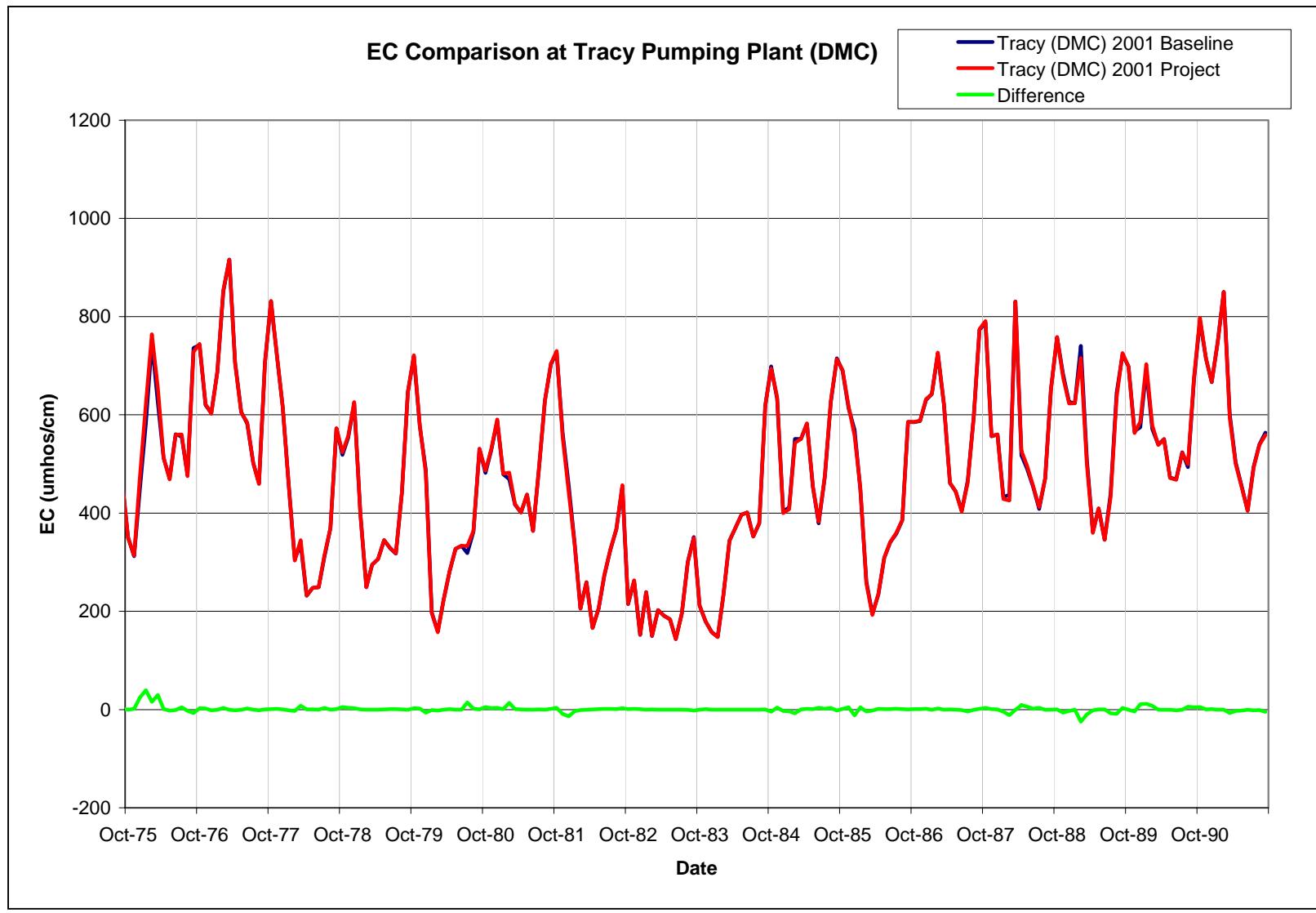


Figure A-11. EC Comparison at Tracy Pumping Plant / Head of Delta-Mendota Canal (2001 Conditions)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Martinez
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1976	231.9	312.0	351.4	236.3	4.6	-340.1	-267.4	-69.2	37.3	-81.0	-135.8	-56.4
1977	8.6	-33.1	-39.2	13.7	6.3	2.3	1.1	8.1	4.0	-12.1	-12.4	-5.7
1978	-2.9	-6.3	13.0	10.8	87.7	-26.6	-8.5	2.2	-21.7	-13.2	-4.5	9.2
1979	12.2	5.9	9.9	-194.2	-66.9	-0.4	0.3	0.7	0.6	0.2	0.1	0.1
1980	16.1	-15.8	188.6	58.5	0.7	-87.9	-46.0	-8.6	-33.4	-10.6	15.5	42.5
1981	34.6	17.1	77.1	911.7	897.9	-428.5	-258.8	-17.9	-0.1	2.3	-3.5	41.1
1982	-3.7	-122.0	4.1	9.0	3.1	7.3	0.3	0.7	3.8	2.3	0.1	66.7
1983	202.3	-3.2	-4.7	1.1	0.1	0.0	0.0	0.0	0.0	6.7	32.7	68.4
1984	-84.6	-19.5	-0.1	0.0	-0.1	-0.1	0.1	0.0	-0.1	-2.3	-2.0	-29.3
1985	-35.9	108.2	214.1	123.1	20.6	119.4	91.8	26.5	8.8	0.2	-19.4	-55.8
1986	8.7	-26.5	151.5	392.7	17.3	0.3	1.4	1.5	-33.6	-25.2	-7.7	-3.6
1987	-1.4	8.6	-1.6	1.0	-293.9	-319.4	-26.9	-0.7	-56.9	-49.4	-13.6	14.6
1988	15.9	2.0	-3.8	144.3	93.1	14.0	363.6	255.7	15.4	6.8	3.9	4.1
1989	1.1	-27.3	-30.5	6.0	13.7	59.2	12.5	-3.4	-14.4	-15.9	37.0	31.1
1990	-20.5	14.7	44.5	2.1	-10.9	-8.5	-5.9	-18.6	-23.2	28.5	41.0	19.0
1991	6.5	11.0	5.7	5.1	6.1	184.5	47.9	-15.6	-3.7	-5.2	-31.6	-35.7
AVG	24.3	14.1	61.3	107.6	48.7	-51.5	-5.9	10.1	-7.3	-10.5	-6.3	6.9
MAX	231.9	312.0	351.4	911.7	897.9	184.5	363.6	255.7	37.3	28.5	41.0	68.4
MIN	-84.6	-122.0	-39.2	-194.2	-293.9	-428.5	-267.4	-69.2	-56.9	-81.0	-135.8	-56.4
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Martinez
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1976	1.4	1.8	1.8	1.2	0.0	-2.0	-1.5	-0.4	0.2	-0.4	-0.6	-0.2
1977	0.0	-0.1	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0
1978	0.0	0.0	0.1	0.3	6.1	-2.7	-0.4	0.0	-0.2	-0.1	0.0	0.0
1979	0.1	0.0	0.0	-1.2	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980	0.1	-0.1	1.0	3.6	0.3	-6.6	-0.7	-0.1	-0.3	-0.1	0.1	0.2
1981	0.2	0.1	0.4	5.5	8.7	-5.8	-2.5	-0.1	0.0	0.0	0.0	0.2
1982	0.0	-0.9	0.4	1.4	0.9	1.6	0.1	0.0	0.1	0.0	0.0	0.3
1983	1.7	-0.1	-0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6
1984	-1.0	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
1985	-0.2	0.8	1.8	0.7	0.1	0.8	0.6	0.2	0.0	0.0	-0.1	-0.2
1986	0.0	-0.1	0.8	2.9	3.0	0.1	0.0	0.0	-0.2	-0.1	0.0	0.0
1987	0.0	0.0	0.0	0.0	-1.6	-3.0	-0.2	0.0	-0.3	-0.2	-0.1	0.1
1988	0.1	0.0	0.0	1.1	0.7	0.1	2.1	1.3	0.1	0.0	0.0	0.0
1989	0.0	-0.1	-0.1	0.0	0.1	0.8	0.2	0.0	-0.1	-0.1	0.2	0.1
1990	-0.1	0.1	0.2	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.1	0.2	0.1
1991	0.0	0.0	0.0	0.0	0.0	1.6	0.4	-0.1	0.0	0.0	-0.1	-0.2
AVG	0.1	0.0	0.3	1.0	1.0	-0.9	-0.1	0.1	-0.1	0.0	0.0	0.1
MAX	1.7	1.8	1.8	5.5	8.7	1.6	2.1	1.3	0.2	0.1	0.3	0.6
MIN	-1.0	-1.6	-0.6	-1.2	-1.8	-6.6	-2.5	-0.4	-0.3	-0.4	-0.6	-0.2

Table A-1. Differences and Percent Differences between Baseline and Project EC at Martinez (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Collinsville	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	120.2	213.7	307.8	208.8	-25.6	-208.9	-179.6	-53.0	125.3	-172.9	-140.6	-53.8	
1977	64.5	-89.2	-50.2	38.3	7.8	-4.0	1.3	14.8	4.0	-27.9	-19.6	-5.2	
1978	-1.7	-11.6	21.4	1.1	0.1	0.7	0.7	0.1	-4.0	7.0	-20.5	3.7	
1979	-16.9	2.3	17.5	-61.0	-2.5	0.0	0.1	0.2	0.3	-0.3	0.8	1.4	
1980	19.5	-33.5	108.4	4.4	-0.1	0.2	-0.1	-0.4	-14.8	34.5	-22.4	34.5	
1981	32.7	11.3	97.0	387.5	98.0	-8.4	-24.6	-2.4	1.8	2.4	-12.4	123.5	
1982	-15.3	-42.2	-0.3	-0.2	-0.1	-0.2	0.0	0.1	0.2	0.5	-4.9	64.4	
1983	31.6	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	8.8	6.9	
1984	-4.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-1.4	-3.0	-72.0	
1985	-55.4	10.4	42.7	92.2	7.9	46.4	27.5	8.0	4.8	-2.4	-50.5	-120.2	
1986	63.8	-66.1	101.2	78.7	0.2	-0.1	0.2	0.4	-15.9	-8.2	-16.5	-8.0	
1987	-1.9	19.2	-11.7	3.3	-127.5	-37.3	1.4	-5.8	-66.0	-47.7	-19.4	63.0	
1988	30.0	-5.3	-4.0	19.2	16.3	-0.8	376.9	136.4	-22.1	15.0	-4.1	5.2	
1989	5.2	-87.6	-45.3	24.8	1.8	2.7	0.6	-1.0	-15.4	18.4	102.5	30.9	
1990	-57.5	26.0	40.0	-6.3	2.2	-6.1	-4.1	-24.7	-35.1	75.8	58.4	23.7	
1991	4.5	20.1	3.4	9.8	6.7	13.7	-1.2	-8.1	-1.8	-14.3	-59.8	-59.5	
AVG	13.7	-2.0	39.2	50.0	-0.9	-12.6	12.5	4.0	-2.4	-7.6	-12.7	2.4	
MAX	120.2	213.7	307.8	387.5	98.0	46.4	376.9	136.4	125.3	75.8	102.5	123.5	
MIN	-57.5	-89.2	-50.2	-61.0	-127.5	-208.9	-179.6	-53.0	-66.0	-172.9	-140.6	-120.2	
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Collinsville	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	6.3	7.6	7.7	3.9	-0.6	-8.5	-5.3	-1.0	1.7	-3.3	-2.2	-0.6	
1977	0.7	-1.0	-0.6	0.5	0.1	-0.1	0.0	0.2	0.1	-0.5	-0.3	-0.1	
1978	0.0	-0.1	0.4	0.4	0.0	0.4	0.3	0.1	-0.8	0.4	-0.5	0.1	
1979	-0.2	0.0	0.2	-3.0	-1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1980	0.2	-0.5	4.0	2.0	0.0	0.1	-0.1	-0.1	-1.5	1.6	-0.5	0.5	
1981	0.4	0.1	1.6	20.9	25.6	-3.8	-4.3	-0.2	0.1	0.0	-0.2	1.7	
1982	-0.2	-3.7	-0.2	-0.1	-0.1	-0.1	0.0	0.1	0.1	0.0	-0.1	1.6	
1983	4.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.6	
1984	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-1.1	
1985	-0.7	0.8	5.7	3.4	0.3	3.5	2.1	0.6	0.1	-0.1	-0.9	-1.8	
1986	0.9	-0.9	3.2	10.0	0.1	0.0	0.1	0.1	-1.2	-0.3	-0.4	-0.1	
1987	0.0	0.2	-0.1	0.1	-5.3	-7.8	0.1	-0.2	-1.6	-0.9	-0.3	0.7	
1988	0.4	-0.1	-0.1	2.9	1.6	0.0	10.8	3.5	-0.5	0.2	-0.1	0.1	
1989	0.1	-1.0	-0.6	0.4	0.0	0.6	0.2	-0.1	-0.5	0.4	1.8	0.4	
1990	-0.7	0.4	0.6	-0.2	0.1	-0.3	-0.2	-0.6	-0.5	1.2	0.8	0.3	
1991	0.0	0.2	0.0	0.1	0.1	1.3	-0.2	-0.3	0.0	-0.2	-0.8	-0.7	
AVG	0.7	0.1	1.4	2.6	1.3	-0.9	0.2	0.1	-0.3	-0.1	-0.2	0.2	
MAX	6.3	7.6	7.7	20.9	25.6	3.5	10.8	3.5	1.7	1.6	1.8	1.7	
MIN	-1.4	-3.7	-0.6	-3.0	-5.3	-8.5	-5.3	-1.0	-1.6	-3.3	-2.2	-1.8	

Table A-2. Differences and Percent Differences between Baseline and Project EC at Collinsville (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Emmaton	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	17.1	42.0	83.0	67.8	-3.5	-31.4	-44.9	-17.5	99.5	-79.1	-41.9	-23.5	
1977	38.0	-51.4	-21.4	17.5	3.5	-7.5	0.1	7.7	0.6	-19.4	-10.6	-2.0	
1978	-0.5	-5.4	6.3	0.1	0.2	0.2	0.2	0.0	-0.4	8.8	-10.4	0.6	
1979	-41.6	1.1	6.1	-7.3	-0.2	0.0	0.0	0.1	0.1	-0.1	0.7	0.6	
1980	0.1	-9.3	15.0	0.4	0.0	0.1	0.2	0.0	-2.1	38.3	-13.0	12.7	
1981	4.0	-1.9	29.9	63.1	16.1	0.2	-1.2	-0.2	0.7	0.6	-5.2	80.1	
1982	-16.2	-6.1	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	-0.1	-3.3	17.8	
1983	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.7	
1984	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-1.5	-36.8	
1985	-21.8	3.8	3.7	22.9	-3.5	5.3	3.4	1.0	1.0	-1.6	-22.3	-53.3	
1986	55.5	-33.4	13.0	11.0	0.0	0.0	0.1	0.1	-2.9	3.1	-7.4	-2.0	
1987	-1.0	9.3	-4.0	0.0	-21.6	-4.1	0.5	-2.5	-23.0	-14.7	-11.5	52.4	
1988	16.7	-4.6	-0.7	1.5	1.8	-0.5	121.7	21.8	-13.9	12.8	-9.9	-2.3	
1989	3.4	-77.3	-16.2	8.1	-14.8	0.4	0.0	-0.1	-4.5	9.1	41.7	0.2	
1990	-28.6	-0.3	14.0	1.4	0.3	-2.2	-0.9	-11.2	-19.4	50.5	27.0	8.2	
1991	3.6	8.7	2.7	3.3	2.6	2.4	-0.4	-1.6	0.0	-11.3	-29.2	-33.8	
AVG	2.0	-7.8	8.2	11.9	-1.2	-2.3	4.9	-0.2	2.2	-0.2	-6.0	1.2	
MAX	55.5	42.0	83.0	67.8	16.1	5.3	121.7	21.8	99.5	50.5	41.7	80.1	
MIN	-41.6	-77.3	-21.4	-7.3	-21.6	-31.4	-44.9	-17.5	-23.0	-79.1	-41.9	-53.3	
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Emmaton	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	5.1	8.9	10.8	5.8	-0.4	-7.4	-6.5	-1.3	4.1	-6.5	-2.4	-0.8	
1977	1.1	-1.6	-0.8	0.8	0.2	-0.6	0.0	0.4	0.0	-1.2	-0.5	-0.1	
1978	0.0	-0.2	0.5	0.0	0.1	0.1	0.1	0.0	-0.2	2.6	-1.1	0.0	
1979	-1.7	0.0	0.3	-1.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	
1980	0.0	-0.6	2.8	0.2	0.0	0.0	0.1	0.0	-0.8	9.3	-1.3	0.8	
1981	0.2	-0.1	2.3	17.6	8.1	0.1	-0.6	-0.1	0.1	0.1	-0.4	3.7	
1982	-0.7	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	2.1	
1983	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	-2.0	
1985	-0.9	1.1	1.6	4.5	-0.7	1.9	1.2	0.4	0.1	-0.1	-1.6	-3.0	
1986	2.6	-1.7	2.0	4.6	0.0	0.0	0.1	0.1	-1.0	0.7	-0.8	-0.1	
1987	0.0	0.4	-0.2	0.0	-4.4	-1.9	0.2	-0.5	-2.7	-1.2	-0.6	1.9	
1988	0.7	-0.2	-0.1	0.7	0.7	-0.1	17.7	2.8	-1.2	0.8	-0.4	-0.1	
1989	0.1	-3.0	-0.8	0.7	-1.2	0.2	0.0	0.0	-0.7	0.9	2.9	0.0	
1990	-1.3	0.0	0.8	0.2	0.1	-0.5	-0.2	-1.0	-0.8	2.8	1.3	0.2	
1991	0.1	0.3	0.1	0.1	0.1	0.8	-0.2	-0.3	0.0	-0.5	-1.2	-1.2	
AVG	0.4	0.1	1.2	2.1	0.2	-0.5	0.7	0.0	-0.2	0.5	-0.4	0.1	
MAX	5.1	8.9	10.8	17.6	8.1	1.9	17.7	2.8	4.1	9.3	2.9	3.7	
MIN	-1.7	-3.0	-0.8	-1.7	-4.4	-7.4	-6.5	-1.3	-2.7	-6.5	-2.4	-3.0	

Table A-3. Differences and Percent Differences between Baseline and Project EC at Emmaton (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Rio Vista	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	1.1	3.2	10.0	9.6	0.4	-2.0	-4.4	-2.4	25.4	-8.2	-4.0	-3.9	
1977	7.8	-10.4	-3.2	2.6	0.6	-1.6	-0.1	1.4	0.0	-3.5	-1.7	-0.3	
1978	0.0	-1.0	0.6	-0.1	0.2	0.0	0.0	0.0	-0.1	0.9	-1.3	0.5	
1979	-9.6	0.2	0.9	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	
1980	-1.0	-0.6	0.6	0.0	0.0	0.0	0.0	0.0	-0.1	4.3	-1.9	1.9	
1981	-0.6	-1.1	3.4	3.8	0.7	-0.3	0.0	0.0	0.1	0.1	-0.6	14.0	
1982	-4.5	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	1.7	
1983	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-5.3	
1985	-2.5	0.0	0.2	2.5	-1.2	0.5	0.2	0.1	0.1	-0.1	-3.0	-6.6	
1986	11.9	-5.4	0.3	0.6	0.0	0.0	0.1	0.0	-0.3	0.6	-0.7	0.1	
1987	-0.1	1.6	-0.2	0.0	-1.3	-0.3	0.1	-0.3	-2.4	-1.6	-1.9	11.3	
1988	2.8	-1.0	0.0	0.0	0.1	0.0	11.7	1.6	-2.2	2.5	-3.5	-2.4	
1989	0.6	-18.7	-1.6	0.9	-3.7	0.0	0.0	0.0	-0.4	0.5	4.8	-2.2	
1990	-4.0	-1.3	2.8	0.6	0.3	-0.3	-0.1	-1.9	-4.2	11.1	4.2	1.3	
1991	1.5	1.3	1.3	0.0	0.4	0.0	-0.1	-0.1	0.2	-2.4	-5.2	-7.0	
AVG	0.2	-2.1	0.9	1.3	-0.2	-0.2	0.5	-0.1	1.0	0.3	-0.9	0.2	
MAX	11.9	3.2	10.0	9.6	0.7	0.5	11.7	1.6	25.4	11.1	4.8	14.0	
MIN	-9.6	-18.7	-3.2	-0.5	-3.7	-2.0	-4.4	-2.4	-4.2	-8.2	-5.2	-7.0	
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Rio Vista	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	0.6	1.7	4.4	3.4	0.2	-1.0	-2.0	-0.8	5.5	-3.1	-1.2	-0.7	
1977	1.1	-1.7	-0.6	0.6	0.2	-0.6	0.0	0.4	0.0	-1.1	-0.4	0.0	
1978	0.0	-0.2	0.2	-0.1	0.1	0.0	0.0	0.0	0.0	0.5	-0.6	0.2	
1979	-2.3	0.0	0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1980	-0.2	-0.2	0.3	0.0	0.0	0.0	0.0	0.0	-0.1	2.3	-0.8	0.6	
1981	-0.1	-0.3	1.3	1.9	0.4	-0.2	0.0	0.0	0.0	0.0	-0.2	3.6	
1982	-1.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	
1983	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.5	
1985	-0.6	0.0	0.1	1.2	-0.6	0.3	0.1	0.0	0.0	0.0	-1.0	-2.0	
1986	3.1	-1.5	0.1	0.3	0.0	0.0	0.0	0.0	-0.1	0.3	-0.3	0.0	
1987	0.0	0.3	0.0	0.0	-0.6	-0.1	0.0	-0.1	-1.0	-0.6	-0.5	2.3	
1988	0.7	-0.2	0.0	0.0	0.1	0.0	5.4	0.7	-0.8	0.7	-0.7	-0.3	
1989	0.1	-4.1	-0.4	0.3	-1.3	0.0	0.0	0.0	-0.2	0.2	1.6	-0.5	
1990	-1.1	-0.4	0.8	0.2	0.1	-0.1	0.0	-0.7	-0.8	3.1	1.1	0.2	
1991	0.2	0.2	0.2	0.0	0.1	0.0	-0.1	-0.1	0.0	-0.6	-1.1	-1.3	
AVG	0.0	-0.4	0.4	0.5	-0.1	-0.1	0.2	0.0	0.2	0.1	-0.3	0.1	
MAX	3.1	1.7	4.4	3.4	0.4	0.3	5.4	0.7	5.5	3.1	1.6	3.6	
MIN	-2.3	-4.1	-0.6	-0.2	-1.3	-1.0	-2.0	-0.8	-1.0	-3.1	-1.2	-2.0	

Table A-4. Differences and Percent Differences between Baseline and Project EC at Rio Vista (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Antioch	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	70.9	160.5	270.8	183.8	-25.5	-165.3	-116.3	-29.6	58.8	29.1	-101.9	-49.1	
1977	78.4	-98.5	-50.4	29.6	5.6	13.1	3.1	9.0	5.5	2.0	-6.0	-1.6	
1978	-0.4	-10.2	21.8	7.7	-0.3	2.0	1.5	0.1	-0.5	-33.2	-21.0	12.9	
1979	79.4	28.5	25.3	-39.8	-2.2	-0.1	0.1	0.2	-0.1	0.3	-0.6	1.7	
1980	53.3	-35.5	93.1	10.2	-0.5	0.1	0.7	0.1	-3.6	-128.7	-45.7	32.1	
1981	58.0	29.5	100.1	353.2	106.9	5.3	-6.6	-0.4	0.7	2.6	-6.8	44.5	
1982	-29.4	-44.3	-0.6	-0.6	-0.4	-0.6	-0.3	0.2	0.1	0.8	5.8	59.8	
1983	12.6	0.3	0.3	0.1	0.4	0.2	0.0	0.0	0.0	0.0	4.8	5.7	
1984	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.3	-30.1	
1985	-42.9	2.5	22.6	16.9	1.7	8.0	7.6	2.0	2.0	3.7	-17.5	-67.9	
1986	17.5	-54.7	79.8	66.7	1.8	-0.5	0.3	0.3	-3.6	-20.5	-5.3	-5.3	
1987	-0.9	20.7	-14.1	5.1	-106.7	-31.2	-1.7	-2.2	-33.0	-36.2	-0.5	15.9	
1988	5.3	-2.1	-2.8	10.1	8.3	-0.2	137.1	75.1	-5.8	-9.9	0.8	12.9	
1989	4.2	0.2	-16.0	22.8	49.4	13.5	0.4	-0.3	-7.6	-18.9	45.5	43.3	
1990	-39.8	64.9	75.0	6.7	-10.9	-5.1	-2.3	-11.4	-23.0	24.3	38.1	27.1	
1991	3.8	19.0	-2.9	11.0	7.0	38.9	1.0	-3.0	-1.3	2.4	-42.9	-41.0	
AVG	16.9	5.1	37.6	42.7	2.2	-7.6	1.5	2.5	-0.7	-11.4	-9.4	3.8	
MAX	79.4	160.5	270.8	353.2	106.9	38.9	137.1	75.1	58.8	29.1	45.5	59.8	
MIN	-42.9	-98.5	-50.4	-39.8	-106.7	-165.3	-116.3	-29.6	-33.0	-128.7	-101.9	-67.9	
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Antioch	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	8.9	11.9	11.8	5.6	-1.0	-13.2	-8.9	-1.4	1.6	1.1	-2.9	-0.8	
1977	1.6	-2.1	-1.3	0.8	0.2	0.7	0.2	0.4	0.2	0.1	-0.1	0.0	
1978	0.0	-0.3	0.7	1.6	-0.1	0.9	0.6	0.1	-0.2	-5.3	-0.9	0.3	
1979	1.8	0.6	0.6	-3.3	-0.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	
1980	1.1	-1.0	6.3	4.0	-0.2	0.1	0.4	0.0	-1.1	-16.0	-1.8	0.8	
1981	1.4	0.7	3.0	31.6	34.4	2.6	-2.5	-0.1	0.0	0.1	-0.2	0.9	
1982	-0.6	-3.4	-0.3	-0.3	-0.2	-0.3	-0.1	0.1	0.1	0.2	0.3	2.7	
1983	3.9	0.1	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.0	1.3	1.8	
1984	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.7	
1985	-0.9	0.1	5.4	1.2	0.1	1.3	1.8	0.5	0.1	0.1	-0.5	-1.5	
1986	0.4	-1.5	4.9	12.2	0.8	-0.2	0.1	0.1	-0.9	-2.5	-0.2	-0.1	
1987	0.0	0.5	-0.3	0.1	-5.9	-8.1	-0.5	-0.3	-1.8	-1.2	0.0	0.3	
1988	0.1	-0.1	-0.2	2.1	1.8	0.0	10.0	4.9	-0.3	-0.3	0.0	0.3	
1989	0.1	0.0	-0.4	0.7	2.4	3.0	0.2	-0.1	-0.6	-0.7	1.2	0.9	
1990	-0.9	1.9	1.8	0.3	-1.1	-0.5	-0.2	-0.7	-0.7	0.9	1.0	0.5	
1991	0.1	0.5	-0.1	0.2	0.2	4.0	0.3	-0.4	-0.1	0.1	-1.3	-0.9	
AVG	1.1	0.5	2.0	3.6	1.9	-0.6	0.1	0.2	-0.2	-1.5	-0.3	0.3	
MAX	8.9	11.9	11.8	31.6	34.4	4.0	10.0	4.9	1.6	1.1	1.3	2.7	
MIN	-0.9	-3.4	-1.3	-3.3	-5.9	-13.2	-8.9	-1.4	-1.8	-16.0	-2.9	-1.5	

Table A-5. Differences and Percent Differences between Baseline and Project EC at Antioch (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Jersey Point	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	29.1	93.0	193.0	133.6	-9.5	-80.5	-58.8	-15.3	38.2	39.7	-56.2	-33.4	
1977	42.9	-53.7	-34.1	15.7	3.9	4.1	1.2	4.5	3.4	0.0	-1.3	-0.4	
1978	-0.2	-5.2	14.2	3.8	-0.3	2.2	1.3	0.1	-0.1	-13.3	-14.3	15.7	
1979	57.5	22.0	16.4	-16.5	-1.3	0.0	0.1	0.2	-0.1	0.5	-0.8	0.9	
1980	37.2	-21.7	49.5	6.0	-0.4	0.4	0.7	0.1	-0.8	-51.0	-29.6	23.0	
1981	37.3	18.9	63.9	261.1	83.2	5.3	-1.3	-0.1	0.3	2.2	-2.5	10.6	
1982	-26.6	-18.1	-0.2	-0.6	-0.4	-0.6	-0.2	0.2	0.1	0.3	7.6	35.5	
1983	4.5	0.3	0.3	0.1	0.4	0.2	0.0	0.0	0.0	0.0	1.9	3.3	
1984	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	5.1	-4.4	
1985	-24.4	25.1	13.3	-11.4	-12.0	-0.3	1.9	0.6	0.7	6.9	3.0	-24.7	
1986	9.6	-34.7	41.6	49.3	1.2	-0.4	0.3	0.2	-0.9	-7.4	0.1	-1.2	
1987	-0.8	13.3	-8.7	5.3	-90.2	-17.6	-1.5	-0.9	-14.6	-20.9	5.4	-0.2	
1988	2.1	-1.0	-1.2	9.4	4.4	0.3	47.4	33.7	-2.4	-8.0	-2.2	5.8	
1989	2.5	-0.1	-7.3	14.8	23.6	7.9	0.3	0.0	-3.2	-37.3	4.5	28.1	
1990	-22.6	39.3	68.4	10.7	-11.7	-4.0	-1.1	-5.2	-13.4	15.2	21.7	17.8	
1991	5.1	9.6	-0.5	5.2	4.9	27.1	0.9	-1.1	-0.5	3.6	-21.9	-24.3	
AVG	9.6	5.4	25.5	30.4	-0.3	-3.5	-0.6	1.1	0.4	-4.3	-5.0	3.3	
MAX	57.5	93.0	193.0	261.1	83.2	27.1	47.4	33.7	38.2	39.7	21.7	35.5	
MIN	-26.6	-53.7	-34.1	-16.5	-90.2	-80.5	-58.8	-15.3	-14.6	-51.0	-56.2	-33.4	
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Jersey Point	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	7.5	14.4	15.4	7.0	-0.7	-12.9	-10.2	-1.6	2.1	3.4	-3.3	-1.1	
1977	1.7	-2.4	-1.8	0.9	0.3	0.5	0.2	0.4	0.2	0.0	-0.1	0.0	
1978	0.0	-0.3	1.0	1.1	-0.1	1.0	0.6	0.1	-0.1	-4.5	-1.1	0.7	
1979	2.7	1.0	0.9	-2.6	-0.5	0.0	0.1	0.1	0.0	0.1	0.0	0.0	
1980	1.5	-1.2	6.5	2.6	-0.2	0.2	0.3	0.0	-0.3	-14.6	-2.4	1.1	
1981	1.9	0.9	4.0	41.0	31.7	2.7	-0.6	0.0	0.0	0.1	-0.1	0.4	
1982	-1.1	-1.9	-0.1	-0.3	-0.2	-0.3	-0.1	0.1	0.1	0.1	0.7	3.4	
1983	1.9	0.2	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.8	1.4	
1984	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	-0.2	
1985	-0.9	2.0	4.3	-1.5	-1.4	-0.1	0.7	0.2	0.1	0.4	0.1	-0.9	
1986	0.5	-1.9	4.9	12.3	0.5	-0.2	0.1	0.1	-0.4	-2.1	0.0	-0.1	
1987	0.0	0.6	-0.4	0.3	-7.7	-5.7	-0.6	-0.3	-1.8	-1.3	0.2	0.0	
1988	0.1	-0.1	-0.1	2.5	1.5	0.1	8.3	5.2	-0.3	-0.6	-0.1	0.2	
1989	0.1	0.0	-0.4	1.0	2.3	2.4	0.1	0.0	-0.6	-2.2	0.2	1.1	
1990	-1.0	2.5	3.0	0.7	-1.8	-0.8	-0.3	-0.8	-0.9	1.2	1.2	0.7	
1991	0.2	0.5	0.0	0.2	0.3	4.6	0.4	-0.3	-0.1	0.2	-1.4	-1.1	
AVG	1.0	0.9	2.3	4.1	1.5	-0.5	-0.1	0.2	-0.1	-1.2	-0.3	0.4	
MAX	7.5	14.4	15.4	41.0	31.7	4.6	8.3	5.2	2.1	3.4	1.2	3.4	
MIN	-1.1	-2.4	-1.8	-2.6	-7.7	-12.9	-10.2	-1.6	-1.8	-14.6	-3.3	-1.1	

Table A-6. Differences and Percent Differences between Baseline and Project EC at Jersey Point (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Rock Slough		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	5.8	15.2	67.5	76.1	30.3	-3.2	-18.6	-7.5	5.8	9.0	-12.3	-14.9		
1977	2.7	0.5	-28.9	2.5	3.5	-1.1	-1.1	0.5	2.2	-1.5	-1.7	0.0		
1978	0.1	-0.4	1.6	0.0	-3.2	6.3	1.8	0.1	-0.1	1.3	-3.7	3.7		
1979	10.1	6.7	5.3	0.6	-1.7	-0.1	0.1	0.2	0.2	0.1	0.0	-0.1		
1980	5.7	1.0	-0.1	2.8	-25.5	5.2	1.7	0.4	0.0	6.5	-7.2	3.9		
1981	9.8	5.4	13.5	66.1	59.6	4.9	0.0	0.0	0.0	0.8	-0.3	3.4		
1982	2.7	-8.6	-2.1	-2.6	-2.0	-3.1	-0.7	0.5	0.3	0.2	1.6	7.0		
1983	0.5	0.8	0.9	0.2	0.5	0.7	-0.3	-0.2	0.0	0.0	0.1	0.4		
1984	1.5	-1.8	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6		
1985	-7.8	12.8	3.5	-0.4	-19.1	-1.9	1.1	0.6	0.3	3.0	4.8	-3.5		
1986	0.9	3.1	-8.9	22.7	-2.1	7.9	4.6	0.5	-0.2	0.7	0.1	1.4		
1987	-0.2	3.0	1.3	-0.8	-10.7	-12.8	-1.2	-0.2	-2.5	-7.0	-0.2	4.2		
1988	3.7	-0.1	-0.1	3.3	2.3	1.1	7.2	15.0	1.3	-1.2	-2.0	-0.3		
1989	0.5	-4.9	-5.3	2.3	6.9	0.2	0.1	0.0	-0.4	-16.8	-11.6	7.0		
1990	-5.2	-1.4	27.4	15.9	-0.9	-3.0	-0.9	-0.8	-3.9	1.1	9.5	9.1		
1991	8.0	1.6	2.8	-1.3	3.2	0.0	-1.1	-0.8	-0.3	0.2	-4.1	-10.2		
AVG	2.4	2.0	4.9	11.7	2.6	0.1	-0.5	0.5	0.2	-0.2	-1.6	0.8		
MAX	10.1	15.2	67.5	76.1	59.6	7.9	7.2	15.0	5.8	9.0	9.5	9.1		
MIN	-7.8	-8.6	-28.9	-2.6	-25.5	-12.8	-18.6	-7.5	-3.9	-16.8	-12.3	-14.9		
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Rock Slough		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	2.3	6.4	15.1	10.8	3.5	-0.7	-5.7	-1.9	0.9	1.7	-2.5	-1.5		
1977	0.2	0.1	-3.2	0.3	0.4	-0.2	-0.2	0.1	0.3	-0.3	-0.3	0.0		
1978	0.0	0.0	0.2	0.0	-1.2	2.3	0.7	0.0	-0.1	0.6	-1.0	0.5		
1979	1.4	0.9	0.7	0.1	-0.5	0.0	0.1	0.1	0.1	0.0	0.0	0.0		
1980	0.6	0.1	0.0	1.1	-7.5	2.3	0.7	0.1	0.0	3.0	-2.0	0.6		
1981	1.5	0.8	2.0	17.2	22.7	2.3	0.0	0.0	0.0	0.1	0.0	0.4		
1982	0.3	-1.6	-0.9	-0.9	-0.8	-1.2	-0.4	0.3	0.2	0.1	0.5	1.6		
1983	0.2	0.4	0.3	0.1	0.4	0.4	-0.2	-0.1	0.0	0.0	0.1	0.2		
1984	0.7	-0.8	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2		
1985	-0.9	1.8	1.3	-0.1	-4.0	-0.6	0.4	0.2	0.1	0.5	0.6	-0.4		
1986	0.1	0.5	-1.8	7.5	-0.7	2.5	1.7	0.2	-0.1	0.3	0.0	0.2		
1987	0.0	0.4	0.2	-0.1	-1.4	-3.7	-0.5	-0.1	-0.8	-1.4	0.0	0.4		
1988	0.4	0.0	0.0	1.1	0.9	0.4	2.3	4.4	0.3	-0.3	-0.3	0.0		
1989	0.1	-0.6	-0.7	0.3	1.1	0.1	0.0	0.0	-0.2	-3.0	-1.4	0.8		
1990	-0.6	-0.2	3.8	2.0	-0.2	-0.9	-0.3	-0.2	-0.8	0.2	1.7	1.0		
1991	0.8	0.2	0.3	-0.1	0.3	0.0	-0.4	-0.3	-0.1	0.0	-0.6	-1.4		
AVG	0.4	0.5	1.1	2.5	0.8	0.2	-0.1	0.2	0.0	0.1	-0.3	0.2		
MAX	2.3	6.4	15.1	17.2	22.7	2.5	2.3	4.4	0.9	3.0	1.7	1.6		
MIN	-0.9	-1.6	-3.2	-0.9	-7.5	-3.7	-5.7	-1.9	-0.8	-3.0	-2.5	-1.5		

Table A-7. Differences and Percent Differences between Baseline and Project EC at Rock Slough, Old River (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Contra Costa Canal	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	6.2	10.2	59.9	78.9	36.7	0.2	-17.2	-8.1	3.7	9.9	-9.8	-16.0	
1977	-5.4	11.1	-29.1	-1.3	3.6	-1.3	-1.5	0.1	2.2	-1.2	-1.8	0.0	
1978	0.0	-0.1	0.4	1.7	-2.8	5.3	8.5	0.6	-0.1	1.5	-3.4	2.2	
1979	9.5	6.9	5.0	2.2	-1.8	-0.2	0.1	0.1	0.2	0.1	0.0	-0.1	
1980	3.1	3.7	-4.2	4.1	-28.6	2.4	4.7	2.6	0.0	6.3	-6.5	1.8	
1981	9.9	6.0	10.5	47.4	67.2	6.7	0.1	0.0	0.0	0.7	0.1	-0.3	
1982	9.3	-10.4	-2.5	-2.4	-2.5	-2.6	-5.9	0.3	0.3	0.2	1.3	6.5	
1983	1.2	0.5	1.5	2.3	2.2	0.5	0.6	-0.2	0.0	0.0	0.1	0.5	
1984	1.4	0.6	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.1	
1985	-6.5	11.2	3.8	2.5	-19.8	-3.0	1.1	0.6	0.3	2.6	4.7	-0.1	
1986	-5.2	11.4	-15.3	21.0	-0.2	-5.4	8.1	1.3	-0.2	0.7	0.0	1.6	
1987	-0.3	1.6	3.8	-2.8	-5.8	-14.5	-1.3	-0.2	-2.2	-6.8	-1.1	3.4	
1988	4.1	0.8	0.0	2.8	2.4	1.3	4.7	14.6	1.8	-1.1	-1.9	-0.5	
1989	0.4	-4.3	-5.1	1.0	7.8	-0.1	0.1	0.0	-0.3	-15.2	-14.0	6.0	
1990	-3.7	-4.1	23.2	20.2	-0.1	-3.2	-1.0	-0.6	-3.5	-0.5	9.3	7.5	
1991	8.8	1.4	3.1	-1.4	2.5	-0.6	-1.5	-1.1	-0.3	0.1	-3.3	-9.2	
AVG	2.1	2.9	3.4	11.0	3.8	-0.9	0.0	0.6	0.1	-0.2	-1.6	0.3	
MAX	9.9	11.4	59.9	78.9	67.2	6.7	8.5	14.6	3.7	9.9	9.3	7.5	
MIN	-6.5	-10.4	-29.1	-2.8	-28.6	-14.5	-17.2	-8.1	-3.5	-15.2	-14.0	-16.0	
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Contra Costa Canal	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	2.2	4.2	13.8	11.5	3.9	0.0	-4.7	-1.9	0.6	1.7	-2.1	-1.9	
1977	-0.5	1.3	-3.2	-0.2	0.4	-0.2	-0.3	0.0	0.3	-0.2	-0.3	0.0	
1978	0.0	0.0	0.1	0.2	-0.6	1.4	2.6	0.2	0.0	0.6	-1.0	0.3	
1979	1.3	1.0	0.6	0.3	-0.5	-0.1	0.0	0.0	0.1	0.0	0.0	0.0	
1980	0.3	0.5	-0.8	1.3	-4.6	0.8	1.7	0.7	0.0	2.6	-1.8	0.3	
1981	1.4	0.9	1.5	9.7	21.7	2.7	0.0	0.0	0.0	0.1	0.0	0.0	
1982	1.0	-1.5	-0.9	-0.5	-0.8	-0.7	-1.9	0.1	0.1	0.1	0.4	1.4	
1983	0.4	0.2	0.3	0.3	0.3	0.1	0.2	-0.1	0.0	0.0	0.0	0.2	
1984	0.6	0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	
1985	-0.7	1.5	1.2	0.8	-3.8	-0.8	0.3	0.2	0.1	0.5	0.6	0.0	
1986	-0.6	1.7	-2.4	5.7	0.0	-1.0	2.2	0.4	-0.1	0.3	0.0	0.2	
1987	0.0	0.2	0.5	-0.4	-0.7	-3.3	-0.5	-0.1	-0.7	-1.3	-0.2	0.4	
1988	0.4	0.1	0.0	0.8	0.9	0.4	1.3	3.7	0.4	-0.3	-0.3	-0.1	
1989	0.0	-0.5	-0.7	0.1	1.2	0.0	0.0	0.0	-0.1	-2.8	-1.7	0.7	
1990	-0.4	-0.6	3.5	2.3	0.0	-0.8	-0.3	-0.2	-0.7	-0.1	1.7	0.9	
1991	0.8	0.2	0.4	-0.1	0.3	-0.1	-0.5	-0.3	-0.1	0.0	-0.5	-1.3	
AVG	0.4	0.6	0.9	2.0	1.1	-0.1	0.0	0.2	0.0	0.1	-0.3	0.1	
MAX	2.2	4.2	13.8	11.5	21.7	2.7	2.6	3.7	0.6	2.6	1.7	1.4	
MIN	-0.7	-1.5	-3.2	-0.5	-4.6	-3.3	-4.7	-1.9	-0.7	-2.8	-2.1	-1.9	

Table A-8. Differences and Percent Differences between Baseline and Project EC at Rock Slough, Contra Costa Canal (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Los Vaqueros Intake				
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1976	3.7	9.1	51.9	65.6	32.6	12.2	-6.4	-4.9	0.3	6.0	-9.4	-12.3				
1977	-0.1	3.0	-18.4	-1.0	2.1	-2.6	-2.5	-0.5	2.2	-0.5	-1.7	0.1				
1978	0.6	0.9	1.0	-2.3	-5.6	12.0	0.4	0.0	-0.3	4.8	-1.1	2.5				
1979	7.3	5.4	4.3	1.6	-1.2	-0.3	0.0	0.1	0.8	0.5	0.2	0.0				
1980	4.2	2.2	-2.4	1.6	-5.5	23.5	3.0	0.2	0.3	17.0	-1.2	2.0				
1981	7.2	4.4	9.7	41.1	44.7	2.8	0.3	0.1	0.0	0.6	-0.1	2.1				
1982	4.0	-8.0	-6.1	-5.0	-4.9	-9.4	-0.2	0.3	0.5	0.5	1.5	5.3				
1983	-0.7	1.5	0.6	0.9	0.4	1.2	-0.8	-0.2	0.0	0.5	0.1	0.0				
1984	2.9	-1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	1.0	1.6				
1985	-5.8	8.6	1.0	2.4	-16.0	-2.0	1.4	0.8	0.3	2.3	4.0	-2.0				
1986	-0.3	4.9	-11.2	16.9	-10.7	14.8	2.2	0.6	-0.2	3.2	1.1	1.4				
1987	0.2	2.0	1.7	-1.7	-2.0	-7.2	-0.3	-0.3	-2.0	-5.4	-0.6	3.0				
1988	3.4	0.5	0.0	1.2	3.3	1.6	5.7	10.0	1.4	-0.5	-1.3	-0.4				
1989	0.2	-4.0	-4.9	0.9	1.1	-2.0	-0.7	0.0	-0.2	-12.4	-11.2	5.3				
1990	-3.0	-3.5	19.8	16.5	0.6	-1.7	-1.0	-0.6	-2.0	-0.6	7.5	5.7				
1991	6.6	1.0	1.7	-0.5	0.8	-4.0	-6.6	-2.2	-0.6	-0.6	-2.0	-7.3				
AVG	1.9	1.7	3.1	8.6	2.5	2.4	-0.3	0.2	0.0	1.0	-0.8	0.4				
MAX	7.3	9.1	51.9	65.6	44.7	23.5	5.7	10.0	2.2	17.0	7.5	5.7				
MIN	-5.8	-8.0	-18.4	-5.0	-16.0	-9.4	-6.6	-4.9	-2.0	-12.4	-11.2	-12.3				
<hr/>																
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Los Vaqueros Intake				
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1976	1.3	3.6	12.8	10.6	4.0	2.5	-1.7	-1.1	0.1	1.1	-2.2	-1.5				
1977	0.0	0.4	-2.4	-0.1	0.3	-0.4	-0.4	-0.1	0.4	-0.1	-0.3	0.0				
1978	0.1	0.1	0.2	-0.5	-1.7	3.6	0.2	0.0	-0.1	1.9	-0.3	0.4				
1979	1.2	0.9	0.6	0.3	-0.3	-0.1	0.0	0.0	0.3	0.2	0.1	0.0				
1980	0.5	0.4	-0.5	0.5	-1.3	8.3	1.1	0.1	0.1	6.7	-0.4	0.4				
1981	1.2	0.7	1.5	10.2	14.0	1.0	0.1	0.0	0.0	0.1	0.0	0.3				
1982	0.5	-1.5	-2.2	-1.4	-1.8	-2.9	-0.1	0.2	0.2	0.2	0.5	1.3				
1983	-0.3	0.6	0.3	0.5	0.3	0.7	-0.4	-0.1	0.0	0.3	0.1	0.0				
1984	1.2	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2				
1985	-0.8	1.3	0.3	0.8	-3.4	-0.6	0.3	0.2	0.1	0.5	0.6	-0.3				
1986	0.0	0.8	-2.2	5.1	-2.6	5.7	0.9	0.2	-0.1	1.2	0.3	0.2				
1987	0.0	0.3	0.2	-0.2	-0.3	-1.7	-0.1	-0.1	-0.6	-1.2	-0.1	0.4				
1988	0.4	0.1	0.0	0.4	1.2	0.5	1.6	2.4	0.3	-0.1	-0.3	-0.1				
1989	0.0	-0.6	-0.7	0.1	0.2	-0.5	-0.3	0.0	-0.1	-2.6	-1.6	0.7				
1990	-0.4	-0.6	3.2	2.2	0.1	-0.5	-0.3	-0.2	-0.4	-0.1	1.5	0.8				
1991	0.7	0.1	0.2	-0.1	0.1	-0.7	-1.7	-0.6	-0.2	-0.1	-0.3	-1.2				
AVG	0.4	0.4	0.7	1.8	0.6	0.9	0.0	0.1	0.0	0.5	-0.1	0.1				
MAX	1.3	3.6	12.8	10.6	14.0	8.3	1.6	2.4	0.4	6.7	1.5	1.3				
MIN	-0.8	-1.5	-2.4	-1.4	-3.4	-2.9	-1.7	-1.1	-0.6	-2.6	-2.2	-1.5				

Table A-9. Differences and Percent Differences between Baseline and Project EC at Old River, State Highway 4 / Los Vaqueros Intake (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Clifton Court		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	2.2	4.4	35.5	56.3	31.9	23.5	3.9	-3.0	-2.9	2.1	-7.5	-10.1		
1977	-3.0	5.5	-10.6	-4.2	1.7	-1.1	-4.2	-2.4	1.1	2.1	-1.6	0.0		
1978	0.5	1.3	0.6	0.5	-2.4	1.9	2.4	0.4	-0.1	4.8	1.3	1.4		
1979	5.4	4.1	3.8	0.4	-0.6	-0.2	0.0	0.1	1.1	1.0	0.4	-0.2		
1980	3.3	3.6	-6.8	3.9	8.2	-1.3	2.6	0.4	0.2	19.1	4.9	0.6		
1981	5.3	3.5	5.7	10.0	26.9	1.8	0.1	0.1	0.0	0.5	0.1	0.7		
1982	4.9	-7.8	-11.0	-3.3	0.7	0.5	0.5	0.6	0.8	1.0	1.5	3.9		
1983	2.1	0.9	0.5	-0.8	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.8		
1984	2.6	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.5	1.7		
1985	-3.9	5.0	-1.6	-0.7	-12.1	-3.0	1.6	1.1	0.1	1.8	3.4	-0.9		
1986	-1.9	6.3	-13.7	8.2	6.5	1.5	0.7	0.7	0.2	3.6	1.5	1.1		
1987	0.4	1.0	2.1	-1.6	1.1	-1.8	0.1	0.1	-1.5	-4.4	-1.0	1.4		
1988	3.0	1.5	0.1	-1.6	1.5	2.3	4.3	7.5	3.6	-0.6	4.2	3.0		
1989	1.0	-3.3	-5.0	-0.8	-1.4	-5.2	-1.6	-0.4	-0.1	-9.3	-11.0	3.8		
1990	-0.9	-5.6	12.2	17.7	3.4	-0.2	-1.0	-0.7	-0.9	-5.6	5.7	4.4		
1991	5.7	1.9	1.1	0.2	-0.3	-8.0	-9.7	-5.3	-1.8	-1.4	-0.9	-4.4		
AVG	1.7	1.4	0.8	5.3	4.1	0.7	0.0	-0.1	0.0	0.9	0.1	0.4		
MAX	5.7	6.3	35.5	56.3	31.9	23.5	4.3	7.5	3.6	19.1	5.7	4.4		
MIN	-3.9	-7.8	-13.7	-4.2	-12.1	-8.0	-9.7	-5.3	-2.9	-9.3	-11.0	-10.1		
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Clifton Court		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	0.7	1.7	9.5	10.4	4.2	4.3	1.0	-0.7	-0.6	0.4	-1.9	-1.5		
1977	-0.4	0.8	-1.6	-0.6	0.2	-0.1	-0.6	-0.4	0.2	0.4	-0.3	0.0		
1978	0.1	0.2	0.1	0.1	-0.7	0.5	0.8	0.2	0.0	1.8	0.4	0.3		
1979	1.0	0.8	0.6	0.1	-0.2	-0.1	0.0	0.0	0.4	0.4	0.1	0.0		
1980	0.5	0.6	-1.5	1.5	4.9	-0.5	1.0	0.1	0.1	6.9	1.6	0.1		
1981	1.0	0.7	1.0	2.4	7.2	0.5	0.0	0.0	0.0	0.1	0.0	0.1		
1982	0.7	-1.5	-3.4	-0.9	0.3	0.2	0.3	0.3	0.3	0.4	0.5	1.0		
1983	0.8	0.4	0.3	-0.5	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.3		
1984	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3		
1985	-0.6	0.8	-0.5	-0.2	-2.7	-0.7	0.4	0.3	0.0	0.4	0.5	-0.1		
1986	-0.3	1.1	-2.7	2.3	2.3	0.8	0.3	0.2	0.1	1.2	0.5	0.2		
1987	0.1	0.2	0.3	-0.3	0.2	-0.3	0.0	0.0	-0.4	-1.1	-0.2	0.2		
1988	0.4	0.3	0.0	-0.5	0.5	0.7	1.1	1.7	0.8	-0.2	1.0	0.5		
1989	0.1	-0.5	-0.8	-0.1	-0.2	-1.2	-0.6	-0.1	0.0	-2.3	-1.8	0.6		
1990	-0.1	-1.0	2.3	2.6	0.7	0.0	-0.3	-0.2	-0.2	-1.1	1.3	0.7		
1991	0.7	0.3	0.2	0.0	0.0	-1.3	-2.2	-1.2	-0.4	-0.3	-0.2	-0.8		
AVG	0.4	0.3	0.2	1.0	1.0	0.2	0.1	0.0	0.0	0.4	0.1	0.1		
MAX	1.0	1.7	9.5	10.4	7.2	4.3	1.1	1.7	0.8	6.9	1.6	1.0		
MIN	-0.6	-1.5	-3.4	-0.9	-2.7	-1.3	-2.2	-1.2	-0.6	-2.3	-1.9	-1.5		

Table A-10. Differences and Percent Differences between Baseline and Project EC at Clifton Court Forebay (2001 LOD)

Difference in EC Predictions (2001 Project - 2001 Baseline)												Tracy (DMC)		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	-0.3	1.4	24.4	39.3	15.7	29.3	0.7	-2.3	-1.0	4.3	-2.5	-7.5		
1977	2.7	2.2	-1.5	-0.5	2.9	-0.7	-1.6	-0.6	1.9	-0.2	-1.4	0.1		
1978	0.8	1.4	0.4	-1.5	-3.0	7.7	0.5	0.1	0.0	3.0	-0.1	0.6		
1979	5.1	3.5	2.5	0.2	0.0	-0.2	0.0	0.0	0.9	0.7	0.3	-0.8		
1980	2.4	2.3	-6.4	-1.0	-2.1	-0.1	0.6	0.0	0.0	14.5	1.9	0.1		
1981	4.9	2.8	3.6	0.8	13.2	0.8	0.1	0.0	0.0	0.4	-0.1	1.0		
1982	3.6	-9.1	-13.7	-3.4	-1.0	-0.5	0.3	0.6	1.1	1.1	0.9	2.5		
1983	1.0	1.3	0.5	-0.4	0.4	0.0	0.0	0.0	0.0	-0.1	-0.8	-1.9		
1984	0.0	0.5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.4		
1985	-4.3	4.0	-3.1	-3.5	-7.7	0.5	1.1	0.8	3.4	1.6	2.9	-2.2		
1986	1.4	4.4	-12.2	4.5	-4.0	-2.1	1.2	0.9	0.9	1.8	0.6	0.1		
1987	0.6	0.9	1.7	-0.6	2.3	-0.3	0.4	-0.1	-1.4	-3.9	-0.8	1.4		
1988	3.0	0.8	0.2	-4.5	-11.5	-0.7	8.9	6.0	1.7	3.8	-0.8	-0.3		
1989	0.1	-6.3	-3.2	-0.3	-24.8	-10.3	-1.4	0.2	0.2	-7.6	-8.6	3.3		
1990	-0.8	-4.0	10.8	11.6	7.6	-0.3	-0.5	-0.5	-1.4	-0.7	5.8	4.5		
1991	5.1	0.2	0.7	-0.2	0.0	-7.3	-3.2	-2.0	-0.6	-1.7	-1.0	-5.0		
AVG	1.6	0.4	0.3	2.5	-0.7	1.0	0.4	0.2	0.4	1.1	-0.2	-0.2		
MAX	5.1	4.4	24.4	39.3	15.7	29.3	8.9	6.0	3.4	14.5	5.8	4.5		
MIN	-4.3	-9.1	-13.7	-4.5	-24.8	-10.3	-3.2	-2.3	-1.4	-7.6	-8.6	-7.5		
Percent Difference in EC Predictions (2001 Project - 2001 Baseline)												Tracy (DMC)		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	-0.1	0.5	5.4	6.7	2.1	4.7	0.1	-0.5	-0.2	0.8	-0.5	-1.0		
1977	0.4	0.3	-0.2	-0.1	0.3	-0.1	-0.2	-0.1	0.3	0.0	-0.3	0.0		
1978	0.1	0.2	0.1	-0.3	-1.0	2.3	0.2	0.0	0.0	1.0	0.0	0.1		
1979	1.0	0.6	0.4	0.0	0.0	-0.1	0.0	0.0	0.3	0.2	0.1	-0.1		
1980	0.3	0.4	-1.3	-0.5	-1.3	0.0	0.2	0.0	0.0	4.6	0.5	0.0		
1981	1.0	0.5	0.6	0.2	2.8	0.2	0.0	0.0	0.0	0.1	0.0	0.1		
1982	0.5	-1.6	-3.0	-1.0	-0.5	-0.2	0.2	0.3	0.4	0.3	0.2	0.6		
1983	0.5	0.5	0.4	-0.2	0.3	0.0	0.0	0.0	0.0	0.0	-0.3	-0.5		
1984	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1		
1985	-0.6	0.6	-0.8	-0.9	-1.4	0.1	0.2	0.2	0.9	0.3	0.5	-0.3		
1986	0.2	0.7	-2.1	1.0	-1.5	-1.1	0.5	0.3	0.3	0.5	0.1	0.0		
1987	0.1	0.1	0.3	-0.1	0.3	0.0	0.1	0.0	-0.3	-0.8	-0.1	0.2		
1988	0.4	0.1	0.0	-1.0	-2.6	-0.1	1.7	1.2	0.4	0.9	-0.2	0.0		
1989	0.0	-0.9	-0.5	-0.1	-3.3	-2.0	-0.4	0.0	0.1	-1.7	-1.3	0.5		
1990	-0.1	-0.7	1.9	1.7	1.3	-0.1	-0.1	-0.1	-0.3	-0.1	1.2	0.7		
1991	0.6	0.0	0.1	0.0	0.0	-1.2	-0.6	-0.4	-0.1	-0.3	-0.2	-0.9		
AVG	0.3	0.1	0.1	0.3	-0.3	0.2	0.1	0.1	0.1	0.4	0.0	0.0		
MAX	1.0	0.7	5.4	6.7	2.8	4.7	1.7	1.2	0.9	4.6	1.2	0.7		
MIN	-0.6	-1.6	-3.0	-1.0	-3.3	-2.0	-0.6	-0.5	-0.3	-1.7	-1.3	-1.0		

Table A-11. Differences and Percent Differences between Baseline and Project EC at Tracy Pumping Plant / Delta-Mendota Canal (2001 LOD)

## **Appendix B. Summary Tables of Differences in EC between Intertie Project Alternative and Baseline Simulation (2020 Level-of-Development)**

This appendix contains graphical and tabular summaries of differences in predicted EC between the Intertie project alternative and the baseline simulation at the following locations in the Delta:

- Martinez
- Collinsville
- Emmaton
- Rio Vista
- Antioch
- Jersey Point
- Rock Slough at Old River
- Rock Slough at Contra Costa Canal
- Old River at State Highway 4 (Los Vaqueros Intake)
- Clifton Court Forebay
- Tracy Pumping Plant (Head of Delta-Mendota Canal)

There are two summary tables for each location comparing the Intertie project alternative to the Baseline alternative. Each set of tables summarizes the actual difference in EC, and the percent difference in EC between two simulations on a monthly basis. Summary tables are generated for water years 1976 through 1991. These tables were generated to allow for the determination of seasonal differences in changes in EC throughout the Delta associated with the project alternative.

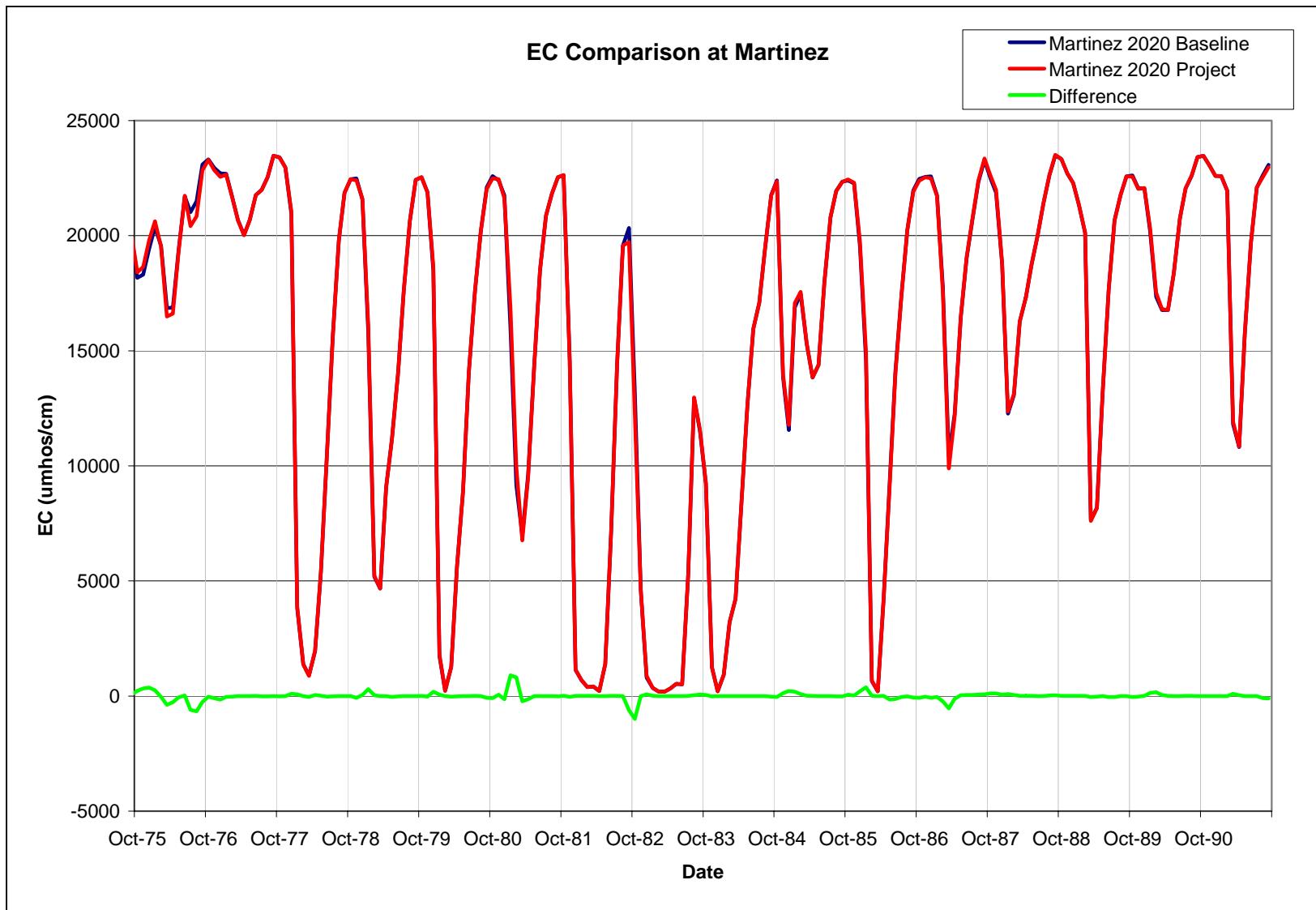


Figure B-1. EC Comparison at Martinez (2020 Conditions)

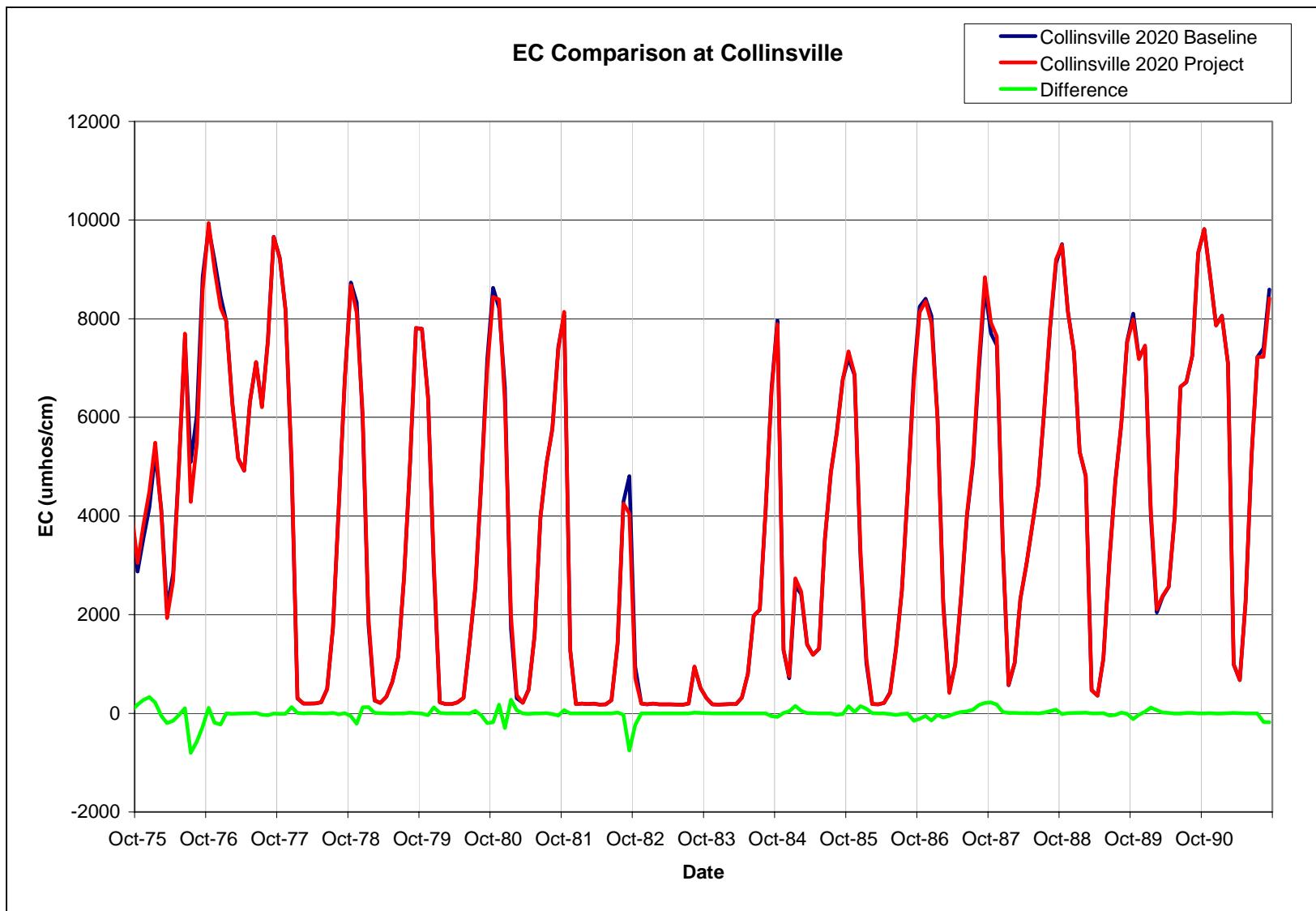


Figure B-2. EC Comparison at Collinsville (2020 Conditions)

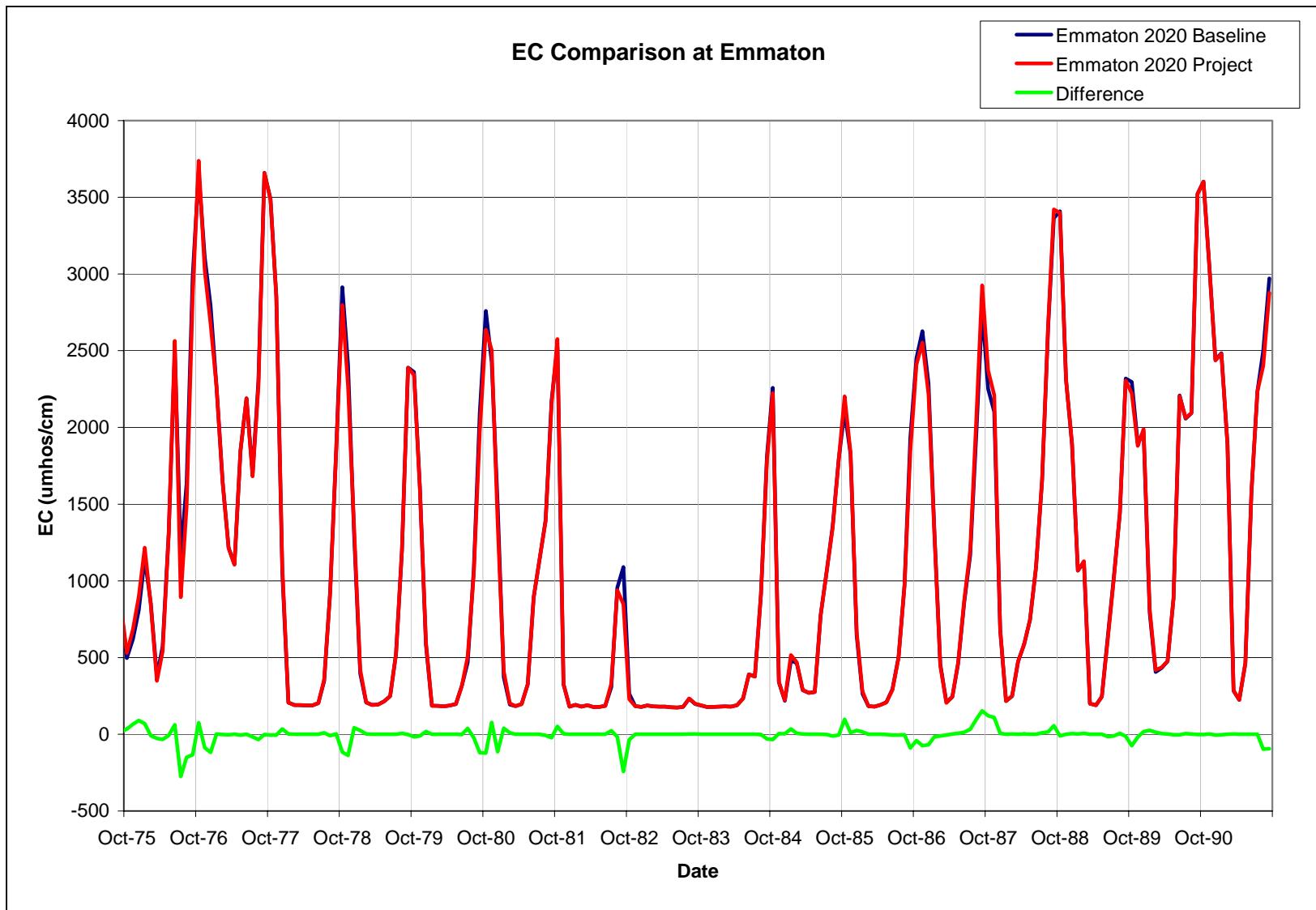


Figure B-3. EC Comparison at Emmaton (2020 Conditions)

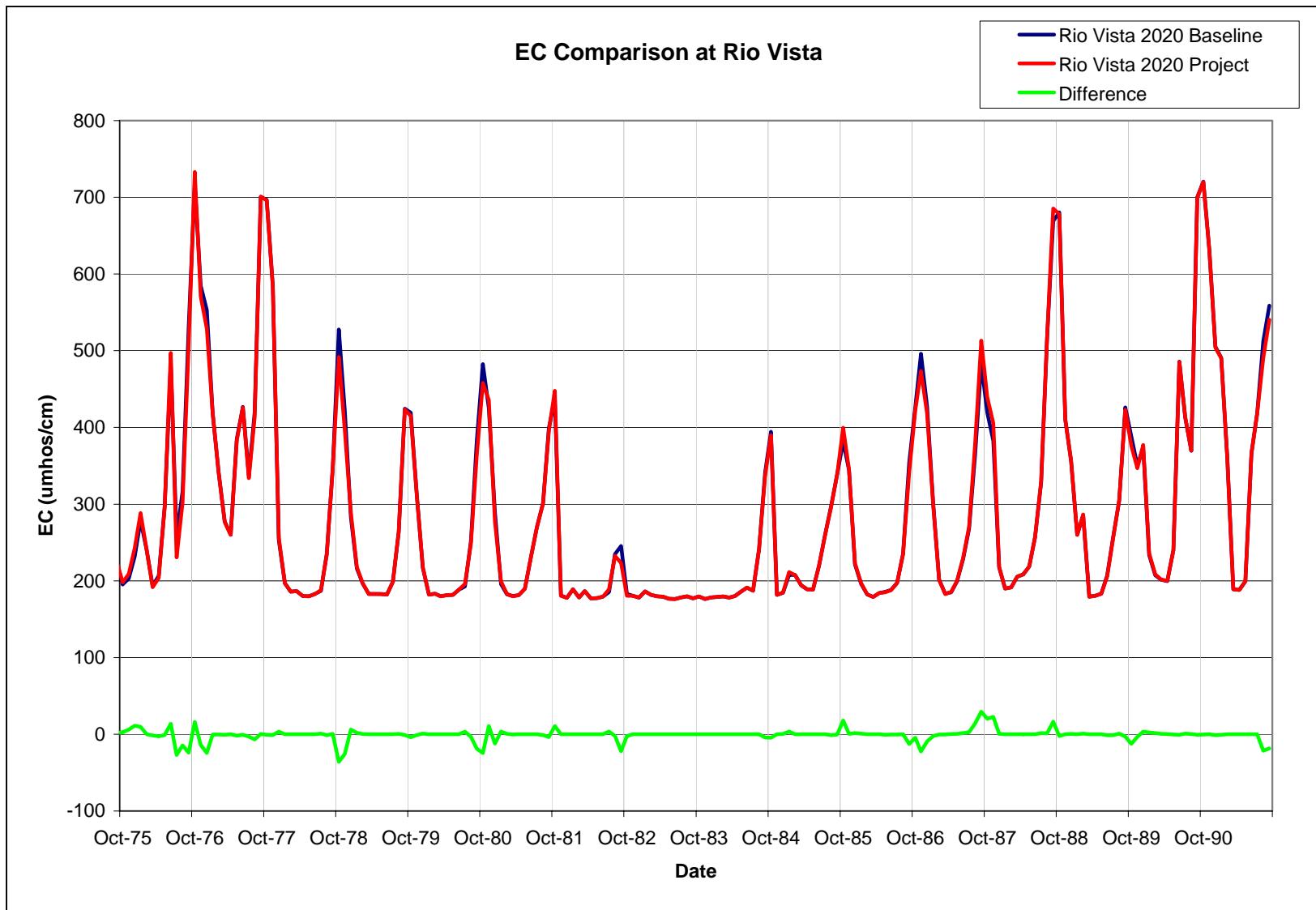


Figure B-4. EC Comparison at Rio Vista (2020 Conditions)

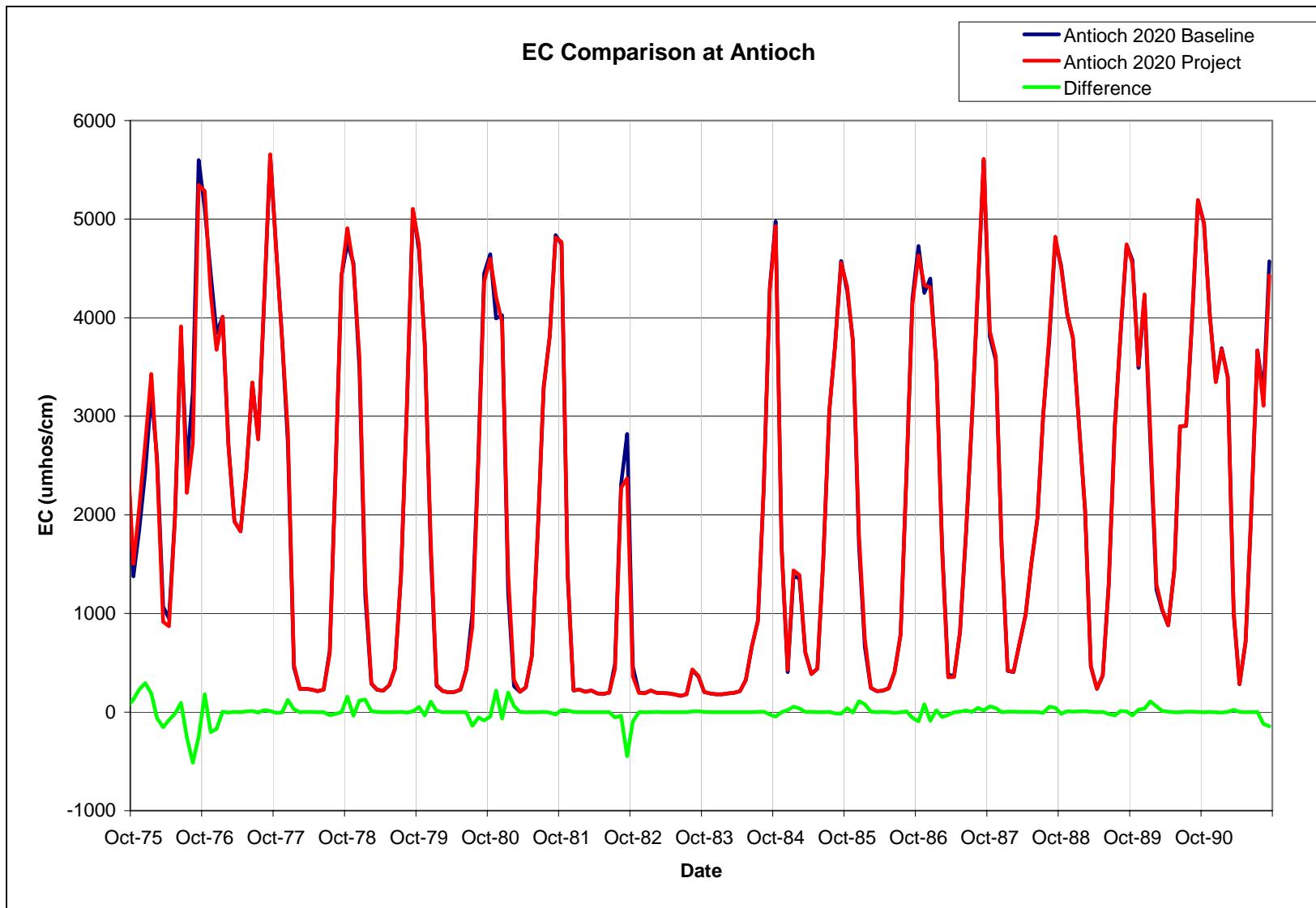


Figure B-5. EC Comparison at Antioch (2020 Conditions)

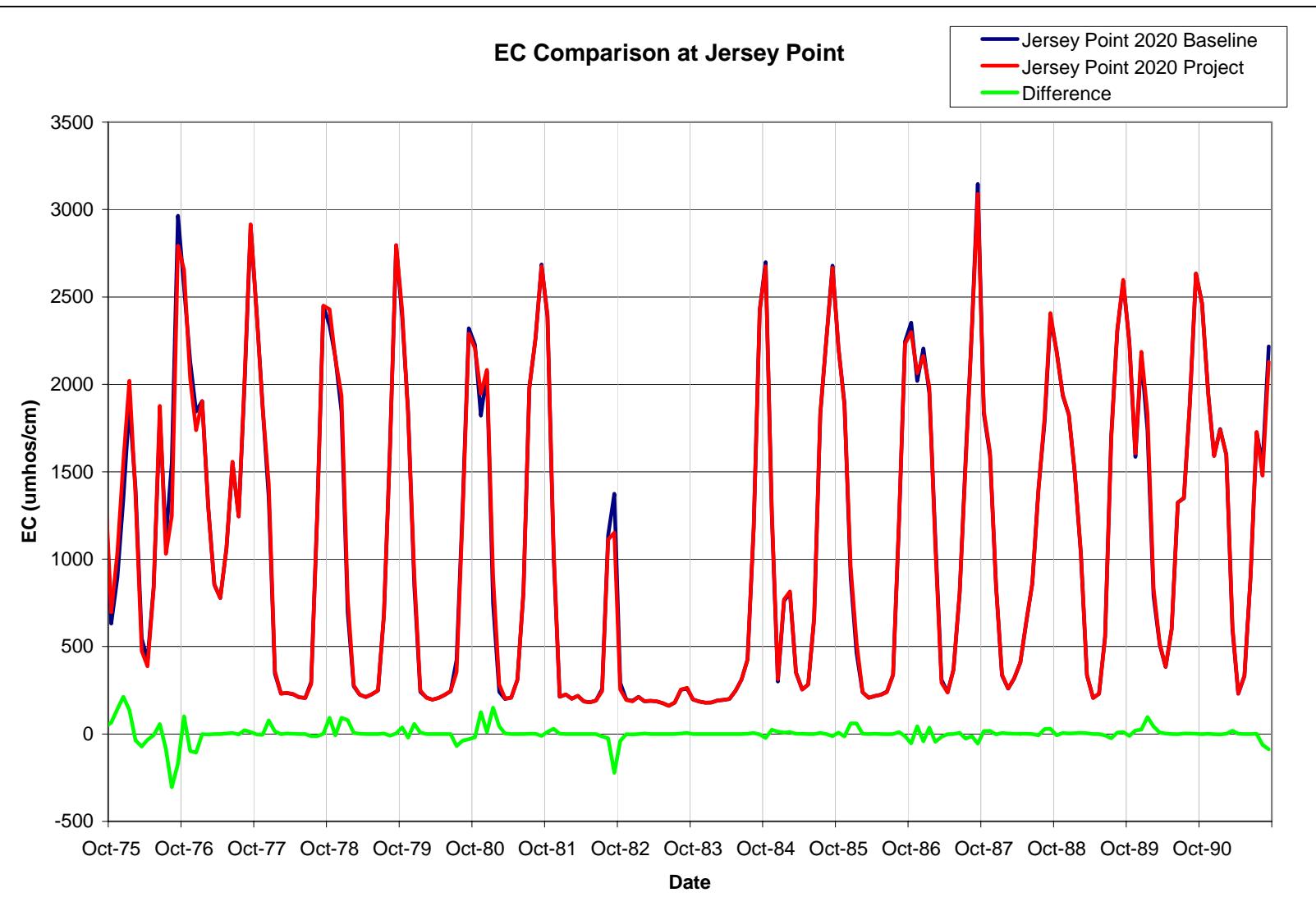


Figure B-6. EC Comparison at Jersey Point (2020 Conditions)

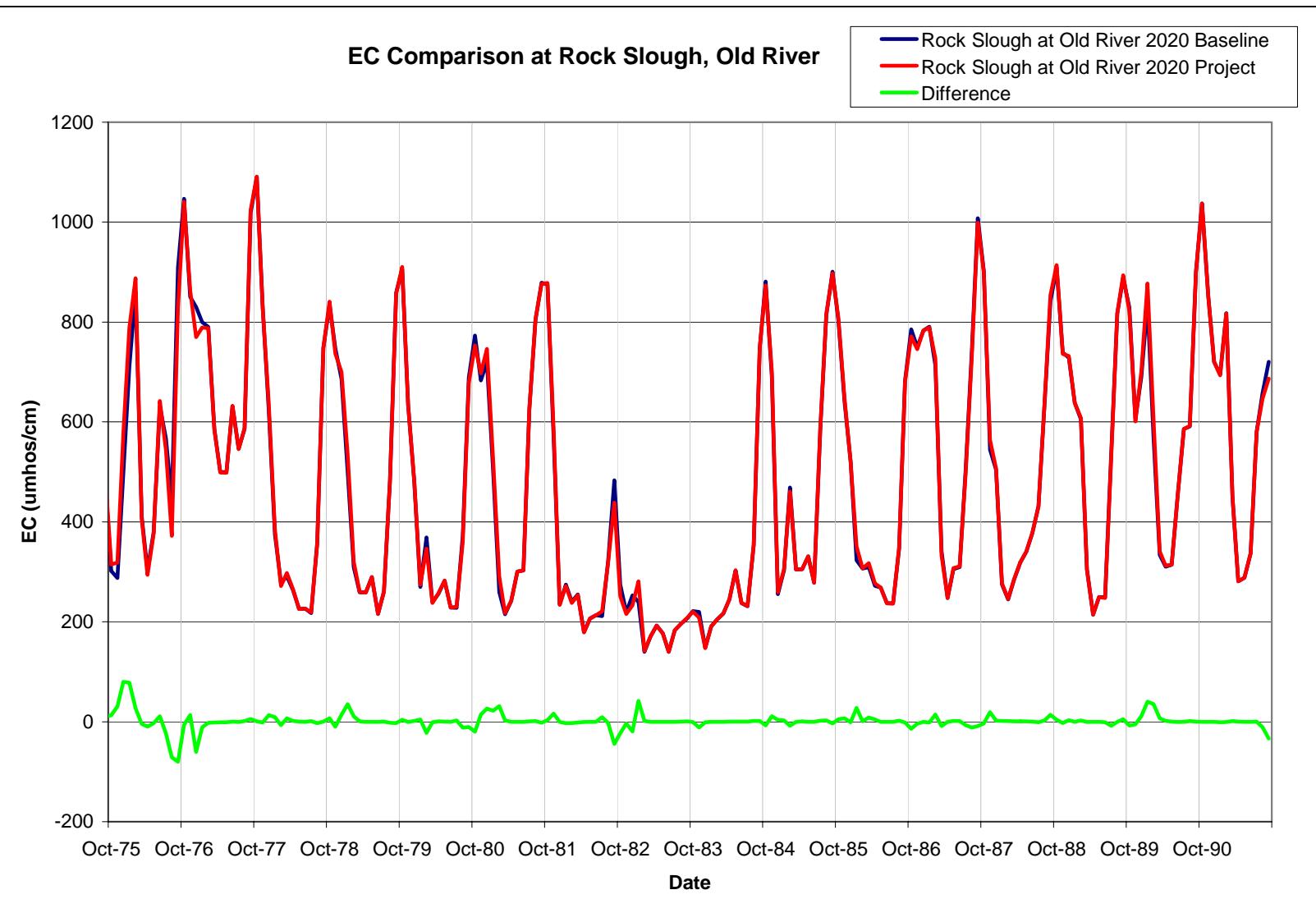


Figure B-7. EC Comparison at Rock Slough, Old River (2020 Conditions)

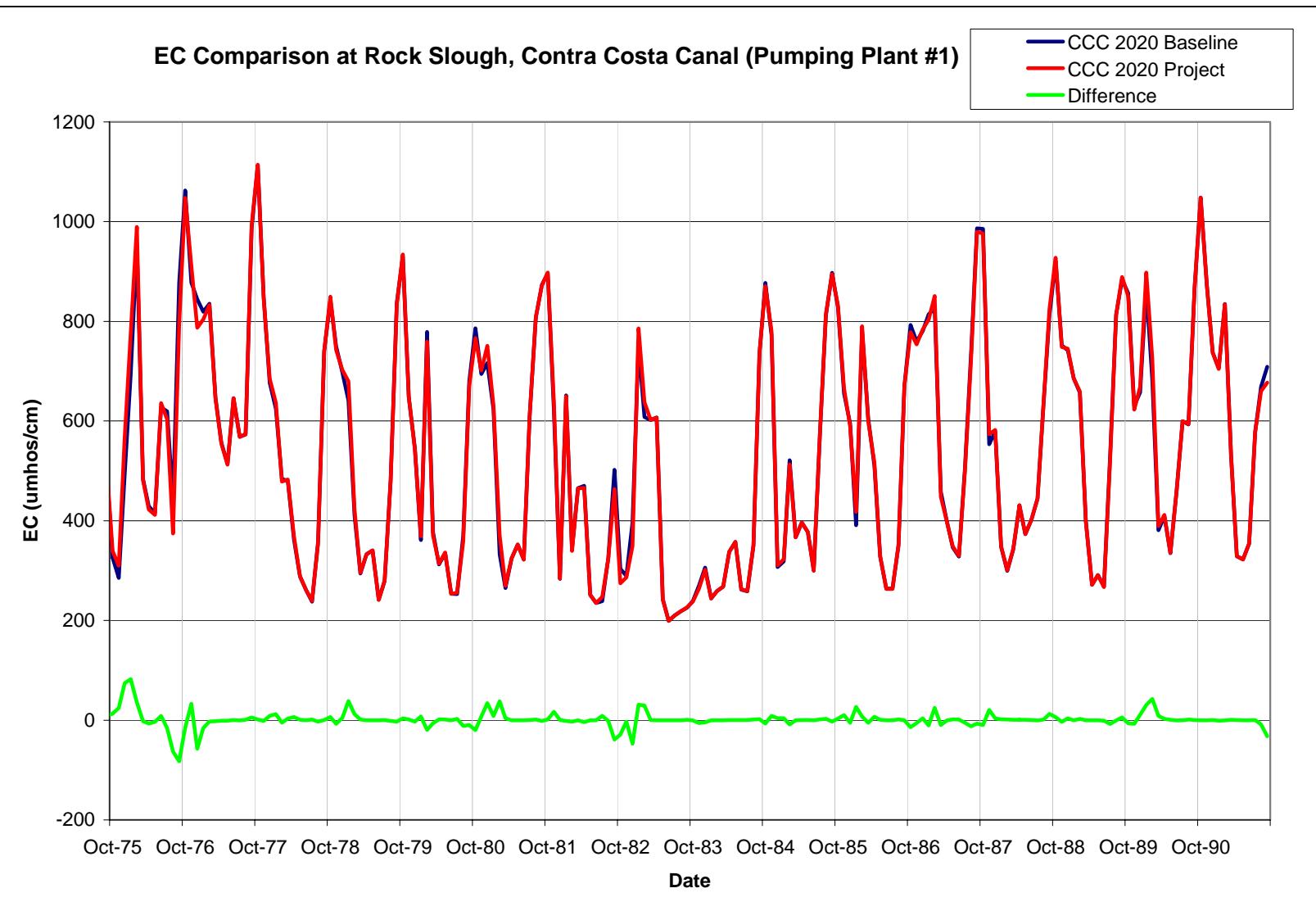


Figure B-8. EC Comparison at Rock Slough, Contra Costa Canal (2020 Conditions)

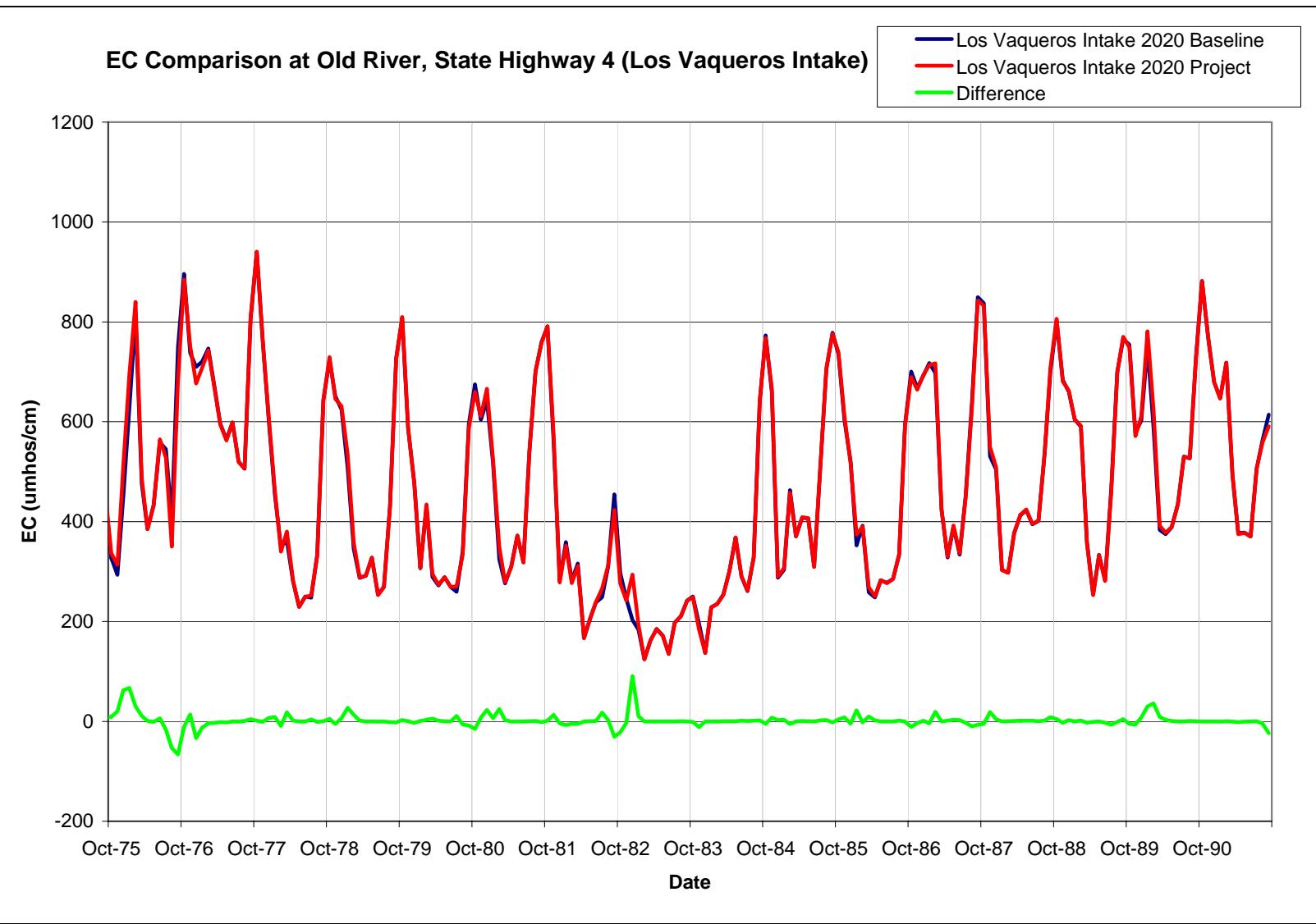


Figure B-9. EC Comparison at Old River, State Highway 4 / Los Vaqueros Intake (2020 Conditions)

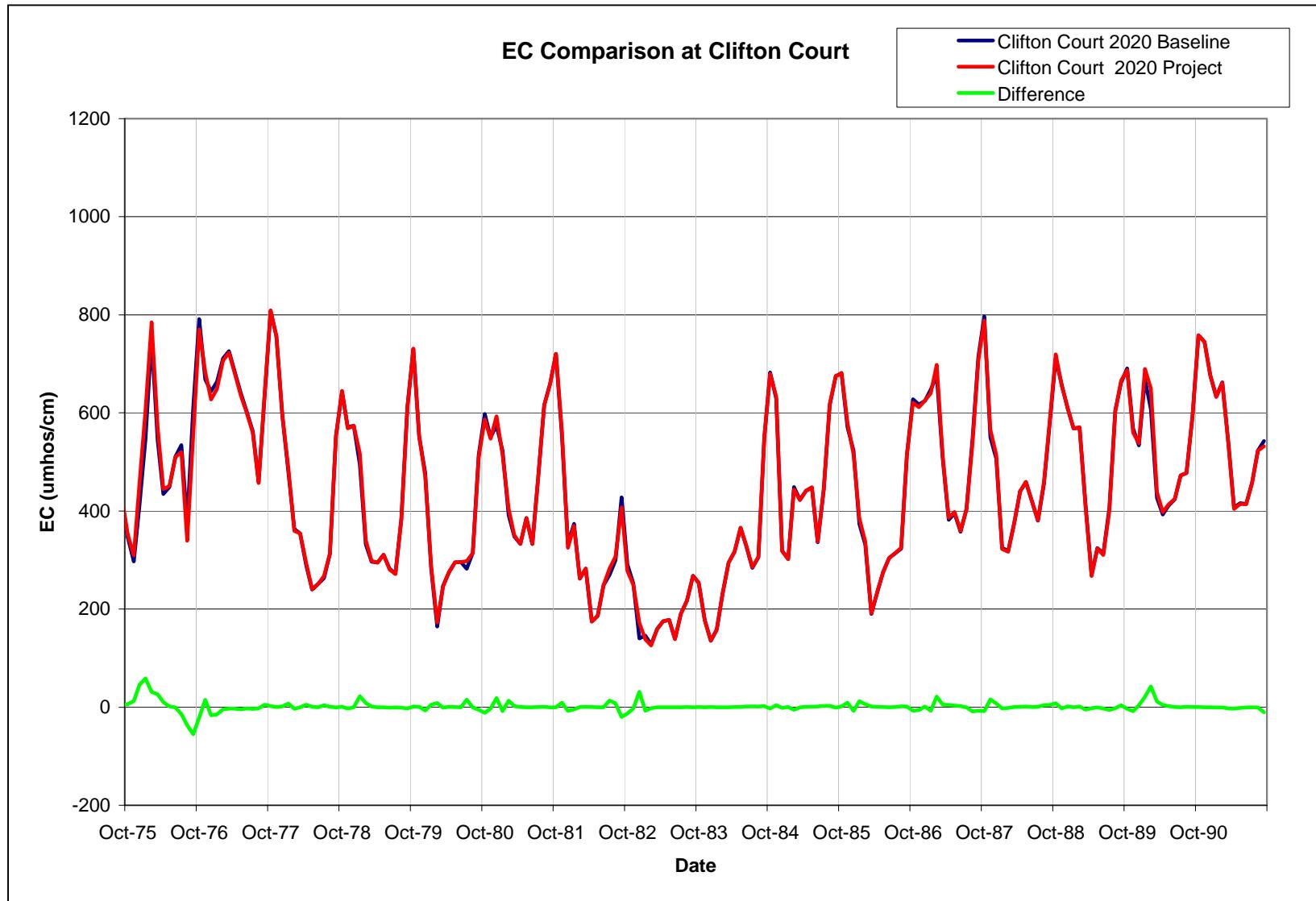


Figure B-10. EC Comparison at Clifton Court (2020 Conditions)

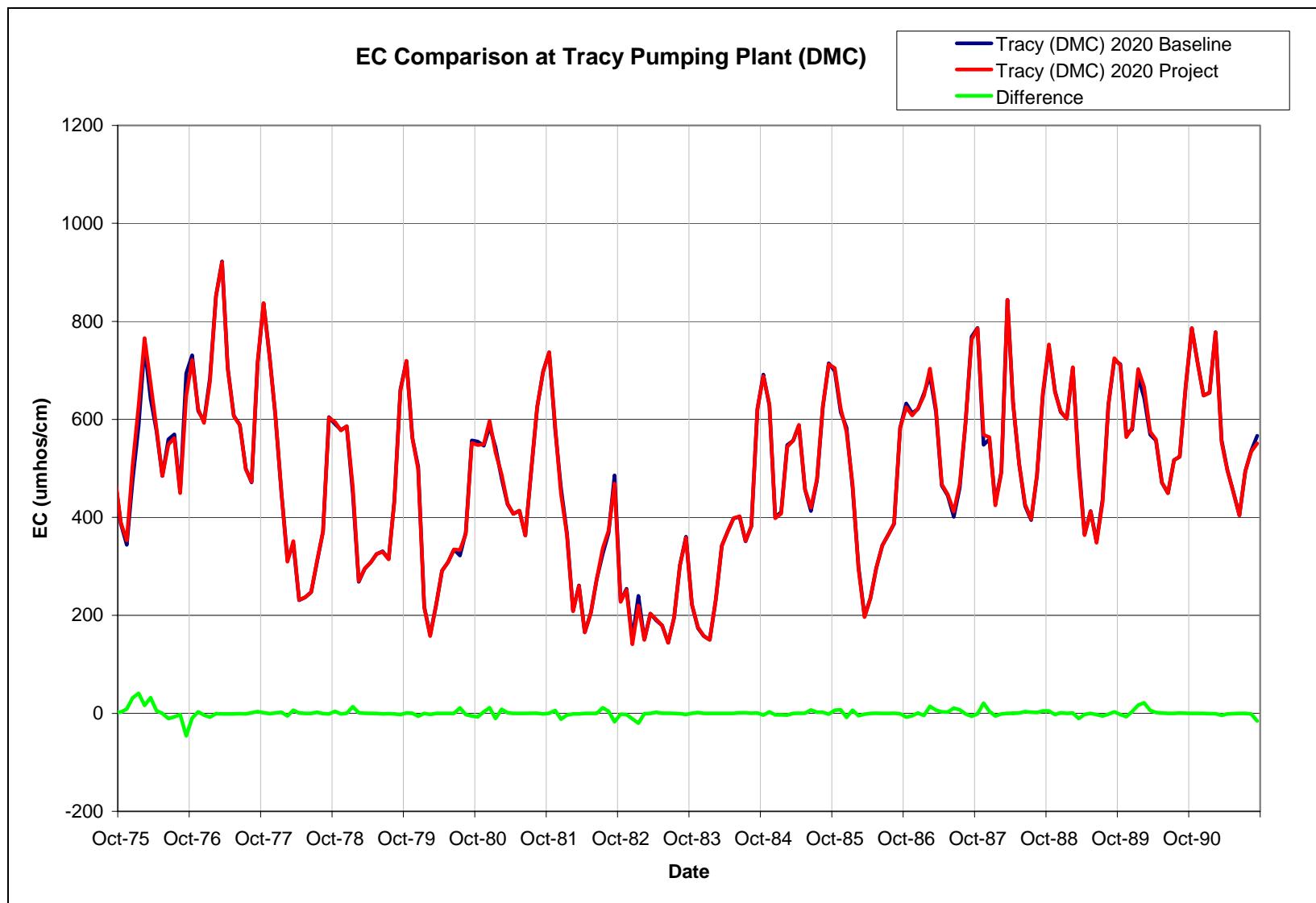


Figure B-11. EC Comparison at Tracy Pumping Plant / Head of Delta-Mendota Canal (2020 Conditions)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Martinez
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1976	229.8	334.8	372.9	249.5	-33.8	-377.8	-265.7	-57.1	26.8	-603.5	-656.2	-257.6
1977	-24.7	-95.4	-149.9	-32.8	-19.1	-7.9	-4.6	0.8	3.8	-11.5	-15.8	-7.1
1978	-8.5	-8.1	101.8	78.6	-0.2	-31.6	46.4	21.0	-21.9	-13.8	-4.7	0.8
1979	0.7	-78.8	42.7	302.9	34.5	-2.7	-7.1	-30.0	-11.3	1.6	0.7	0.1
1980	7.4	-20.9	190.6	63.8	0.8	-23.9	-11.2	1.3	-0.7	5.2	-2.5	-71.6
1981	-89.0	58.3	-131.6	901.2	811.0	-222.6	-133.5	-7.8	-0.3	1.0	-6.9	-18.2
1982	16.0	-29.4	3.5	9.4	3.6	3.6	0.1	0.6	3.7	9.1	-1.7	-608.9
1983	-988.4	-1.9	74.5	16.3	0.4	0.0	-0.1	-0.1	0.0	6.7	33.1	71.8
1984	48.5	-10.9	-0.3	-0.1	-0.2	-0.3	0.0	-0.2	-0.2	-2.1	-1.9	-24.2
1985	-39.6	123.8	220.9	191.7	88.3	21.8	6.3	-0.7	-0.7	-0.4	-11.6	-11.7
1986	53.4	26.8	211.7	378.1	17.9	0.2	4.1	-151.0	-124.5	-38.0	-9.6	-64.3
1987	-77.3	-25.4	-74.3	-31.6	-235.2	-535.4	-116.1	37.3	51.8	45.7	70.2	74.1
1988	115.5	121.7	54.2	88.2	47.7	7.3	3.6	2.4	0.5	0.5	24.9	33.0
1989	4.2	2.5	5.2	6.5	10.3	-48.8	-19.1	-0.1	-43.2	-43.0	-0.5	-1.3
1990	-47.8	-26.7	10.1	142.5	166.6	44.6	11.2	-3.0	-5.3	3.1	3.8	0.8
1991	-0.6	0.7	-2.3	-4.6	-0.8	102.2	32.6	-3.3	-0.8	-1.1	-86.1	-107.2
AVG	-50.0	23.2	58.1	147.5	55.7	-67.0	-28.3	-11.9	-7.6	-40.0	-41.5	-62.0
MAX	229.8	334.8	372.9	901.2	811.0	102.2	46.4	37.3	51.8	45.7	70.2	74.1
MIN	-988.4	-95.4	-149.9	-32.8	-235.2	-535.4	-265.7	-151.0	-124.5	-603.5	-656.2	-608.9
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Martinez
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1976	1.3	1.8	1.9	1.2	-0.2	-2.2	-1.6	-0.3	0.1	-2.9	-3.1	-1.1
1977	-0.1	-0.4	-0.7	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0
1978	0.0	0.0	0.5	2.1	0.0	-3.5	2.4	0.4	-0.2	-0.1	0.0	0.0
1979	0.0	-0.4	0.2	1.9	0.7	-0.1	-0.1	-0.3	-0.1	0.0	0.0	0.0
1980	0.0	-0.1	1.0	3.7	0.3	-1.9	-0.2	0.0	0.0	0.0	0.0	-0.3
1981	-0.4	0.3	-0.6	5.6	8.9	-3.2	-1.4	-0.1	0.0	0.0	0.0	-0.1
1982	0.1	-0.2	0.3	1.4	0.9	0.9	0.1	0.0	0.1	0.1	0.0	-3.0
1983	-7.5	0.0	9.3	4.7	0.2	0.0	0.0	0.0	0.0	0.1	0.3	0.6
1984	0.5	-0.9	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
1985	-0.2	0.9	1.9	1.1	0.5	0.1	0.0	0.0	0.0	0.0	-0.1	-0.1
1986	0.2	0.1	1.1	2.6	2.7	0.1	0.1	-1.6	-0.9	-0.2	0.0	-0.3
1987	-0.3	-0.1	-0.3	-0.1	-1.3	-5.1	-0.9	0.2	0.3	0.2	0.3	0.3
1988	0.5	0.6	0.3	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.1
1989	0.0	0.0	0.0	0.0	0.1	-0.6	-0.2	0.0	-0.2	-0.2	0.0	0.0
1990	-0.2	-0.1	0.0	0.7	1.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
1991	0.0	0.0	0.0	0.0	0.0	0.9	0.3	0.0	0.0	0.0	-0.4	-0.5
AVG	-0.4	0.1	0.9	1.6	0.9	-0.9	-0.1	-0.1	-0.1	-0.2	-0.2	-0.3
MAX	1.3	1.8	9.3	5.6	8.9	0.9	2.4	0.4	0.3	0.2	0.3	0.6
MIN	-7.5	-0.9	-0.7	-0.1	-1.3	-5.1	-1.6	-1.6	-0.9	-2.9	-3.1	-3.0

Table B-1. Differences and Percent Differences between Baseline and Project EC at Martinez (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Collinsville	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	175.1	273.1	328.0	215.5	-55.3	-201.9	-151.4	-34.0	100.2	-804.8	-570.2	-272.7	
1977	110.0	-190.8	-227.1	-3.3	-9.7	-7.1	-1.4	-1.4	6.1	-28.7	-41.4	-6.9	
1978	-9.7	-10.3	123.7	8.1	-0.8	0.6	0.6	0.1	-4.1	6.4	20.1	3.3	
1979	-57.5	-209.8	119.2	126.9	6.8	0.5	-1.0	-5.8	-1.9	-0.7	10.0	2.9	
1980	-6.9	-37.4	119.7	5.1	-0.1	-0.1	0.0	0.1	-6.7	49.8	-39.9	-199.0	
1981	-182.2	175.0	-299.1	274.0	62.3	-4.1	-11.0	-1.4	0.1	1.2	-17.3	-43.5	
1982	63.4	-3.9	0.0	-0.2	-0.1	-0.1	0.0	0.0	-0.2	18.7	-31.6	-757.0	
1983	-237.3	-1.6	-0.9	-0.5	0.2	0.0	0.0	0.0	0.0	0.1	9.9	8.8	
1984	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.2	-1.3	-3.5	-57.6	
1985	-72.5	7.9	40.8	149.2	50.1	4.5	1.6	-0.4	-0.1	-3.9	-30.6	-17.4	
1986	144.6	27.2	144.0	93.6	0.4	-0.1	0.2	-17.8	-33.7	-17.6	-7.1	-155.0	
1987	-112.1	-51.5	-150.4	-29.7	-86.1	-47.4	-6.2	26.6	40.8	73.7	168.1	212.1	
1988	220.3	177.7	25.5	7.0	8.6	3.0	2.5	1.5	-0.9	10.4	45.6	74.9	
1989	-14.2	4.3	7.1	7.2	14.3	-2.3	-1.1	1.2	-45.1	-35.9	13.8	-13.4	
1990	-119.3	-29.5	29.2	113.8	63.6	16.3	5.2	-5.9	-6.7	7.1	5.2	-0.4	
1991	-2.4	2.4	-6.7	-7.4	0.4	8.9	1.5	-1.7	-0.5	-0.5	-176.0	-179.8	
AVG	-6.1	8.3	15.8	60.0	3.4	-14.3	-10.0	-2.4	2.9	-45.4	-42.8	-87.6	
MAX	220.3	273.1	328.0	274.0	63.6	16.3	5.2	26.6	100.2	73.7	168.1	212.1	
MIN	-237.3	-209.8	-299.1	-29.7	-86.1	-201.9	-151.4	-34.0	-45.1	-804.8	-570.2	-757.0	
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Collinsville	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	6.1	7.7	7.9	4.1	-1.3	-9.5	-5.3	-0.7	1.3	-15.8	-9.4	-3.1	
1977	1.1	-2.1	-2.7	0.0	-0.2	-0.1	0.0	0.0	0.1	-0.5	-0.5	-0.1	
1978	-0.1	-0.1	2.5	2.7	-0.4	0.3	0.3	0.0	-0.8	0.4	-0.5	0.0	
1979	-0.7	-2.5	2.0	7.1	2.6	0.2	-0.3	-0.9	-0.2	0.0	0.2	0.0	
1980	-0.1	-0.6	4.1	2.3	0.0	-0.1	0.0	0.0	-0.5	2.0	-0.9	-2.8	
1981	-2.1	2.1	-4.5	16.0	20.3	-1.9	-2.3	-0.1	0.0	0.0	-0.3	-0.6	
1982	0.8	-0.3	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.1	1.3	-0.7	-15.7	
1983	-25.0	-0.8	-0.5	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	1.1	1.7	
1984	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.9	
1985	-0.9	0.6	5.8	5.8	2.1	0.3	0.1	0.0	0.0	-0.1	-0.5	-0.3	
1986	2.0	0.4	4.5	9.2	0.2	0.0	0.1	-4.2	-2.6	-0.7	-0.2	-2.3	
1987	-1.4	-0.6	-1.9	-0.5	-3.8	-10.3	-0.6	1.1	1.0	1.5	2.4	2.5	
1988	2.9	2.4	0.8	1.2	0.8	0.1	0.1	0.0	0.0	0.2	0.6	0.8	
1989	-0.1	0.1	0.1	0.1	0.3	-0.5	-0.3	0.1	-1.4	-0.8	0.2	-0.2	
1990	-1.5	-0.4	0.4	2.8	3.1	0.7	0.2	-0.1	-0.1	0.1	0.1	0.0	
1991	0.0	0.0	-0.1	-0.1	0.0	0.9	0.2	-0.1	0.0	0.0	-2.4	-2.1	
AVG	-1.1	0.4	1.1	3.1	1.5	-1.2	-0.5	-0.3	-0.2	-0.8	-0.7	-1.4	
MAX	6.1	7.7	7.9	16.0	20.3	0.9	0.3	1.1	1.3	2.0	2.4	2.5	
MIN	-25.0	-2.5	-4.5	-0.5	-3.8	-10.3	-5.3	-4.2	-2.6	-15.8	-9.4	-15.7	

Table B-2. Differences and Percent Differences between Baseline and Project EC at Collinsville (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Emmaton	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	34.5	64.3	89.9	68.8	-9.9	-27.5	-32.9	-8.4	61.8	-275.4	-149.5	-132.9	
1977	74.9	-88.7	-118.4	1.5	-2.4	-3.9	-0.5	-4.7	0.3	-17.0	-35.2	-1.4	
1978	-4.0	-5.0	34.6	1.0	-0.4	0.2	0.3	0.0	-0.4	8.3	-9.8	2.7	
1979	-116.2	-137.9	43.0	24.2	1.4	0.1	-0.1	-0.6	-0.1	-0.3	6.6	-1.9	
1980	-17.2	-11.2	18.3	0.5	0.0	0.0	0.0	0.0	-1.3	38.4	-22.7	-120.1	
1981	-122.6	77.4	-114.2	39.0	8.4	0.0	-0.5	-0.2	0.1	0.3	-7.9	-23.4	
1982	51.3	2.3	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	23.2	-16.6	-243.1	
1983	-36.1	-0.2	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	
1984	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-1.7	-30.2	
1985	-34.7	3.7	3.4	34.8	5.8	0.6	0.2	-0.1	0.3	-1.8	-12.5	-4.7	
1986	96.4	10.0	23.8	14.3	0.0	0.0	0.1	-2.1	-5.0	-4.3	-3.1	-89.1	
1987	-41.3	-73.9	-68.8	-16.6	-10.5	-4.3	0.8	6.2	14.2	32.0	96.8	153.4	
1988	121.5	109.2	5.6	0.5	0.9	0.6	0.7	0.4	-0.6	9.5	15.6	56.2	
1989	-10.4	0.3	3.9	1.5	5.6	-0.1	0.0	0.2	-14.6	-10.1	5.4	-13.4	
1990	-75.1	-19.1	16.9	25.4	13.5	3.7	1.2	-2.5	-3.3	4.3	2.1	-1.3	
1991	-1.6	1.0	-4.1	-3.6	0.1	1.8	0.2	-0.3	-0.2	-0.4	-97.3	-94.5	
AVG	-5.0	-4.2	-4.1	11.9	0.8	-1.8	-1.9	-0.8	3.2	-12.1	-14.3	-33.9	
MAX	121.5	109.2	89.9	68.8	13.5	3.7	1.2	6.2	61.8	38.4	96.8	153.4	
MIN	-122.6	-137.9	-118.4	-16.6	-10.5	-27.5	-32.9	-8.4	-14.6	-275.4	-149.5	-243.1	
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Emmaton	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	6.9	10.4	11.1	6.0	-1.2	-7.3	-5.8	-0.6	2.5	-23.6	-9.2	-4.5	
1977	2.0	-2.9	-4.2	0.1	-0.1	-0.3	0.0	-0.3	0.0	-1.0	-1.5	0.0	
1978	-0.1	-0.2	3.3	0.5	-0.2	0.1	0.1	0.0	-0.2	2.4	-1.1	0.1	
1979	-4.0	-5.7	3.3	6.1	0.7	0.1	-0.1	-0.3	-0.1	-0.1	0.5	-0.1	
1980	-0.7	-0.7	3.1	0.3	0.0	0.0	0.0	0.0	-0.4	8.2	-2.1	-5.7	
1981	-4.4	3.2	-7.6	10.5	4.3	0.0	-0.2	-0.1	0.0	0.0	-0.6	-1.1	
1982	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	-1.7	-22.3	
1983	-13.7	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	-1.7	
1985	-1.5	1.1	1.6	7.2	1.3	0.2	0.1	0.0	0.0	-0.2	-0.9	-0.3	
1986	4.6	0.5	3.7	5.4	0.0	0.0	0.0	-1.0	-1.7	-0.9	-0.3	-4.6	
1987	-1.7	-2.8	-3.0	-1.2	-2.3	-2.0	0.3	1.3	1.6	2.7	4.9	5.5	
1988	5.4	5.2	0.8	0.2	0.4	0.1	0.1	0.1	-0.1	0.6	0.6	1.7	
1989	-0.3	0.0	0.2	0.1	0.5	0.0	0.0	0.1	-2.3	-1.0	0.4	-0.6	
1990	-3.3	-1.0	0.9	3.2	3.3	0.8	0.2	-0.3	-0.2	0.2	0.1	0.0	
1991	0.0	0.0	-0.2	-0.1	0.0	0.7	0.1	-0.1	0.0	0.0	-3.9	-3.2	
AVG	-0.5	0.5	0.8	2.4	0.4	-0.5	-0.3	-0.1	0.0	-0.3	-0.9	-2.3	
MAX	6.9	10.4	11.1	10.5	4.3	0.8	0.3	1.3	2.5	8.2	4.9	5.5	
MIN	-13.7	-5.7	-7.6	-1.2	-2.3	-7.3	-5.8	-1.0	-2.3	-23.6	-9.2	-22.3	

Table B-3. Differences and Percent Differences between Baseline and Project EC at Emmaton (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Rio Vista		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	2.6	5.9	11.1	9.7	-0.2	-1.6	-2.6	-0.8	13.7	-27.0	-14.4	-24.0		
1977	15.9	-13.9	-24.1	-0.3	-0.3	-0.7	-0.1	-2.0	-0.6	-2.9	-6.6	0.4		
1978	-0.6	-0.9	3.3	0.0	-0.1	0.0	0.1	0.0	-0.1	0.9	-1.3	0.6		
1979	-35.9	-25.8	6.0	1.9	0.3	0.0	0.0	-0.1	0.0	0.0	0.6	-0.9		
1980	-4.0	-0.9	0.9	0.0	0.0	0.0	0.0	0.0	-0.1	3.3	-3.4	-18.9		
1981	-24.6	10.7	-12.1	3.7	0.5	-0.2	0.0	0.0	0.0	0.0	-0.9	-3.7		
1982	10.5	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	-2.1	-22.2		
1983	-2.5	0.0	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-4.2		
1985	-4.6	0.1	0.2	3.6	-0.2	0.1	0.0	0.0	0.0	-0.2	-1.3	-0.3		
1986	17.8	0.7	1.4	0.8	0.0	0.0	0.0	-0.5	-0.3	-0.3	-0.2	-12.8		
1987	-4.4	-22.6	-9.5	-2.4	-0.4	-0.4	0.2	0.6	1.5	2.7	14.1	29.2		
1988	20.2	22.7	0.5	-0.1	0.1	0.1	0.1	0.1	-0.1	1.6	1.1	16.2		
1989	-2.5	-0.1	0.7	0.1	0.9	0.0	0.0	0.0	-1.3	-1.1	0.8	-2.9		
1990	-12.4	-3.3	3.3	2.4	1.3	0.4	0.1	-0.3	-0.7	0.9	0.3	-0.6		
1991	-0.3	0.1	-1.2	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	-21.6	-18.4		
AVG	-1.5	-1.7	-1.2	1.2	0.1	-0.2	-0.1	-0.2	0.7	-1.2	-2.2	-3.9		
MAX	20.2	22.7	11.1	9.7	1.3	0.4	0.2	0.6	13.7	3.7	14.1	29.2		
MIN	-35.9	-25.8	-24.1	-2.4	-0.4	-1.6	-2.6	-2.0	-1.3	-27.0	-21.6	-24.0		
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Rio Vista		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	1.3	2.9	4.8	3.5	-0.1	-0.8	-1.3	-0.3	2.8	-10.5	-4.6	-4.5		
1977	2.2	-2.4	-4.4	-0.1	-0.1	-0.3	0.0	-0.5	-0.1	-0.9	-1.6	0.1		
1978	-0.1	-0.2	1.3	0.0	-0.1	0.0	0.1	0.0	0.0	0.5	-0.5	0.2		
1979	-6.8	-6.1	2.1	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.2	-0.2		
1980	-1.0	-0.3	0.4	0.0	0.0	0.0	0.0	0.0	-0.1	1.7	-1.4	-4.9		
1981	-5.1	2.5	-4.2	1.9	0.2	-0.1	0.0	0.0	0.0	0.0	-0.3	-0.9		
1982	2.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	-0.9	-9.1		
1983	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2		
1985	-1.2	0.0	0.1	1.7	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.4	-0.1		
1986	4.7	0.2	0.6	0.4	0.0	0.0	0.0	-0.3	-0.2	-0.2	-0.1	-3.6		
1987	-1.0	-4.5	-2.2	-0.8	-0.2	-0.2	0.1	0.3	0.6	1.0	3.9	6.0		
1988	4.8	5.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	2.4		
1989	-0.4	0.0	0.2	0.0	0.3	0.0	0.0	0.0	-0.6	-0.4	0.2	-0.7		
1990	-3.2	-1.0	0.9	1.0	0.6	0.2	0.1	-0.1	-0.1	0.2	0.1	-0.1		
1991	0.0	0.0	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-4.2	-3.3		
AVG	-0.3	-0.2	0.0	0.5	0.1	-0.1	-0.1	-0.1	0.1	-0.4	-0.6	-1.2		
MAX	4.8	5.9	4.8	3.5	0.6	0.2	0.1	0.3	2.8	2.0	3.9	6.0		
MIN	-6.8	-6.1	-4.4	-0.8	-0.2	-0.8	-1.3	-0.5	-0.6	-10.5	-4.6	-9.1		

Table B-4. Differences and Percent Differences between Baseline and Project EC at Rio Vista (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Antioch	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	128.0	226.4	292.4	188.5	-62.7	-153.7	-81.0	-16.5	92.4	-256.4	-515.3	-251.1	
1977	181.1	-204.0	-170.0	3.0	-5.1	1.0	0.0	6.7	10.5	-5.6	19.6	10.6	
1978	-8.2	-6.9	121.7	26.2	-1.5	1.6	1.0	0.0	-0.5	-31.2	-19.9	0.1	
1979	155.2	-35.5	117.9	126.0	8.2	0.8	-0.2	-1.1	-0.2	1.9	-5.5	6.9	
1980	50.6	-33.6	105.3	12.0	-0.5	-0.7	0.2	0.0	-2.4	-140.9	-55.4	-84.9	
1981	-44.7	218.4	-68.1	195.9	61.2	2.2	-3.0	-0.4	-0.3	1.5	-5.9	-24.4	
1982	21.0	14.4	0.9	-0.5	-0.5	-0.3	-0.2	0.0	-0.1	-54.4	-37.3	-449.2	
1983	-95.7	-1.3	-3.2	-0.7	1.9	0.1	0.0	0.0	0.0	-0.1	5.7	7.6	
1984	0.3	0.0	-0.3	0.1	0.0	0.0	0.0	0.1	0.0	0.3	3.0	-23.4	
1985	-45.9	-1.8	21.3	53.4	36.8	1.7	0.5	-0.2	-1.1	1.5	-12.4	-18.2	
1986	38.2	-6.1	109.8	80.2	2.6	-0.6	0.4	-2.1	-7.7	-3.4	7.0	-58.5	
1987	-94.5	78.8	-89.1	19.0	-49.4	-30.4	-4.5	3.2	15.0	1.3	42.4	16.1	
1988	57.5	40.0	-0.5	4.6	3.4	1.2	1.0	0.9	-1.0	-8.6	52.2	42.7	
1989	-16.9	9.2	3.5	5.5	9.0	4.2	-0.3	0.3	-20.1	-33.4	10.6	7.1	
1990	-34.7	25.6	33.8	107.4	56.8	11.5	2.8	-2.4	-4.2	4.4	4.3	1.0	
1991	-2.4	2.5	-2.8	-5.4	1.2	23.5	1.3	-0.5	-0.2	0.5	-120.8	-143.8	
AVG	18.0	20.4	29.6	50.9	3.8	-8.6	-5.1	-0.7	5.0	-32.7	-39.2	-60.1	
MAX	181.1	226.4	292.4	195.9	61.2	23.5	2.8	6.7	92.4	4.4	52.2	42.7	
MIN	-95.7	-204.0	-170.0	-5.4	-62.7	-153.7	-81.0	-16.5	-20.1	-256.4	-515.3	-449.2	
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Antioch	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	9.3	12.3	12.0	5.8	-2.4	-14.4	-8.5	-0.8	2.4	-10.3	-15.9	-4.5	
1977	3.5	-4.6	-4.4	0.1	-0.2	0.1	0.0	0.3	0.3	-0.2	0.5	0.2	
1978	-0.2	-0.2	4.5	5.8	-0.7	0.7	0.5	0.0	-0.2	-5.0	-0.8	0.0	
1979	3.3	-0.8	3.4	10.7	2.9	0.4	-0.1	-0.4	-0.1	0.1	-0.2	0.1	
1980	1.1	-0.9	6.5	4.5	-0.2	-0.3	0.1	0.0	-0.6	-14.1	-2.1	-1.9	
1981	-1.0	5.5	-1.7	16.1	23.2	1.1	-1.2	-0.1	0.0	0.0	-0.2	-0.5	
1982	0.4	1.0	0.4	-0.2	-0.2	-0.1	-0.1	0.0	0.0	-11.1	-1.6	-15.9	
1983	-20.9	-0.6	-1.7	-0.3	1.0	0.0	0.0	0.0	0.0	0.0	1.3	2.1	
1984	0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.5	
1985	-0.9	-0.1	5.3	3.9	2.7	0.3	0.1	0.0	-0.1	0.0	-0.3	-0.4	
1986	0.9	-0.2	6.5	12.1	1.1	-0.3	0.2	-0.9	-1.9	-0.4	0.3	-1.4	
1987	-2.0	1.9	-2.0	0.5	-2.9	-7.9	-1.3	0.4	0.8	0.0	1.0	0.3	
1988	1.5	1.1	0.0	1.1	0.8	0.2	0.1	0.1	0.0	-0.3	1.4	0.9	
1989	-0.4	0.2	0.1	0.2	0.4	0.9	-0.1	0.1	-1.5	-1.1	0.3	0.1	
1990	-0.8	0.7	0.8	3.9	4.6	1.1	0.3	-0.2	-0.1	0.2	0.1	0.0	
1991	0.0	0.1	-0.1	-0.1	0.0	2.4	0.5	-0.1	0.0	0.0	-3.7	-3.1	
AVG	-0.4	1.0	1.8	4.0	1.9	-1.0	-0.6	-0.1	-0.1	-2.6	-1.2	-1.5	
MAX	9.3	12.3	12.0	16.1	23.2	2.4	0.5	0.4	2.4	0.2	1.4	2.1	
MIN	-20.9	-4.6	-4.4	-0.3	-2.9	-14.4	-8.5	-0.9	-1.9	-14.1	-15.9	-15.9	

Table B-5. Differences and Percent Differences between Baseline and Project EC at Antioch (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Jersey Point	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	65.4	142.6	211.6	136.6	-37.5	-71.4	-34.6	-7.3	56.7	-86.0	-304.9	-170.7	
1977	100.0	-97.7	-106.2	-1.2	-2.6	-0.3	-0.2	1.8	5.0	-3.2	21.1	10.1	
1978	-3.6	-3.9	77.5	14.6	-1.7	1.9	0.9	0.0	-0.1	-12.4	-13.0	0.3	
1979	92.2	-8.0	93.0	79.1	6.4	0.6	-0.2	-0.4	0.0	2.1	-9.8	2.7	
1980	37.7	-20.6	58.0	7.2	-0.4	-0.4	0.1	0.0	-0.7	-69.0	-37.8	-30.2	
1981	-19.5	124.3	10.6	150.1	42.0	2.2	-0.6	-0.1	-0.1	1.5	1.2	-10.7	
1982	11.6	28.7	1.1	-0.5	-0.5	-0.3	-0.2	0.0	0.0	-13.6	-24.5	-223.2	
1983	-39.8	-1.2	-2.9	-0.6	1.5	0.0	0.0	0.0	0.0	-0.1	2.4	4.8	
1984	-0.1	0.0	-0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.4	4.8	-3.0	
1985	-23.1	24.0	12.6	7.7	10.9	0.7	0.3	-0.1	-0.7	4.5	0.1	-12.8	
1986	7.0	-14.2	59.5	59.9	1.5	-0.5	0.4	-0.4	-1.9	-1.1	9.7	-12.4	
1987	-54.4	44.4	-41.7	35.2	-45.3	-16.3	-2.0	0.0	5.8	-26.8	-12.0	-56.3	
1988	15.9	17.0	-3.7	5.4	1.6	0.5	0.5	0.6	-0.3	-7.8	27.2	28.5	
1989	-7.5	5.3	2.3	3.4	5.6	3.2	0.0	0.0	-8.1	-24.5	7.5	10.2	
1990	-11.8	19.7	25.7	96.6	42.0	7.4	1.6	-0.9	-2.3	2.3	2.5	0.6	
1991	-1.3	0.9	-1.6	-3.2	0.5	18.4	0.9	-0.2	-0.1	0.4	-63.1	-88.4	
AVG	10.5	16.3	24.7	36.9	1.5	-3.4	-2.1	-0.4	3.3	-14.6	-24.3	-34.4	
MAX	100.0	142.6	211.6	150.1	42.0	18.4	1.6	1.8	56.7	4.5	27.2	28.5	
MIN	-54.4	-97.7	-106.2	-3.2	-45.3	-71.4	-34.6	-7.3	-8.1	-86.0	-304.9	-223.2	
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Jersey Point	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	10.4	15.9	15.7	7.2	-2.7	-13.1	-8.2	-0.9	3.1	-7.7	-19.6	-5.8	
1977	3.9	-4.6	-5.8	-0.1	-0.2	0.0	0.0	0.2	0.3	-0.3	1.1	0.3	
1978	-0.1	-0.2	5.7	4.2	-0.8	0.8	0.4	0.0	-0.1	-4.2	-1.0	0.0	
1979	3.9	-0.4	5.0	11.3	2.3	0.3	-0.1	-0.2	0.0	0.3	-0.6	0.1	
1980	1.6	-1.1	6.8	3.0	-0.2	-0.2	0.1	0.0	-0.3	-16.3	-2.9	-1.3	
1981	-0.9	6.8	0.5	20.1	17.5	1.1	-0.3	0.0	0.0	0.1	0.1	-0.4	
1982	0.5	2.8	0.5	-0.2	-0.2	-0.1	-0.1	0.0	0.0	-5.3	-2.2	-16.2	
1983	-13.6	-0.6	-1.5	-0.3	0.8	0.0	0.0	0.0	0.0	0.0	1.0	1.9	
1984	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	-0.1	
1985	-0.9	1.9	4.2	1.0	1.4	0.2	0.1	-0.1	-0.1	0.2	0.0	-0.5	
1986	0.3	-0.7	6.6	12.9	0.6	-0.3	0.2	-0.2	-0.8	-0.3	0.8	-0.6	
1987	-2.3	2.2	-1.9	1.8	-4.1	-5.3	-0.9	0.0	0.7	-1.7	-0.5	-1.8	
1988	0.9	1.1	-0.4	1.6	0.6	0.2	0.1	0.1	0.0	-0.6	1.5	1.2	
1989	-0.3	0.3	0.1	0.2	0.5	1.0	0.0	0.0	-1.4	-1.4	0.3	0.4	
1990	-0.5	1.2	1.2	5.6	5.3	1.5	0.4	-0.1	-0.2	0.2	0.1	0.0	
1991	-0.1	0.0	-0.1	-0.2	0.0	3.1	0.4	-0.1	0.0	0.0	-4.1	-4.0	
AVG	0.2	1.5	2.3	4.3	1.3	-0.7	-0.5	-0.1	0.1	-2.3	-1.6	-1.7	
MAX	10.4	15.9	15.7	20.1	17.5	3.1	0.4	0.2	3.1	0.3	1.5	1.9	
MIN	-13.6	-4.6	-5.8	-0.3	-4.1	-13.1	-8.2	-0.9	-1.4	-16.3	-19.6	-16.2	

Table B-6. Differences and Percent Differences between Baseline and Project EC at Jersey Point (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Rock Slough		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	13.2	30.4	79.9	78.2	27.1	-4.4	-9.5	-3.3	11.1	-23.2	-71.3	-80.4		
1977	-6.1	13.3	-60.3	-10.9	-2.3	-1.7	-0.9	-1.0	0.3	-0.9	1.3	5.3		
1978	0.8	-1.8	13.2	9.2	-6.6	6.9	1.5	0.1	0.0	1.3	-3.3	0.2		
1979	6.7	-10.3	14.1	35.2	10.8	0.7	-0.3	-0.3	-0.3	0.4	-2.1	-2.5		
1980	4.2	-0.6	1.5	4.6	-22.4	-1.3	0.8	0.2	-0.1	2.5	-12.1	-10.7		
1981	-19.8	14.3	26.1	22.0	31.3	2.5	-0.1	-0.1	0.0	0.5	1.2	-2.2		
1982	2.9	16.2	-0.7	-2.8	-2.5	-1.6	-0.5	0.0	-0.1	9.4	-2.5	-44.3		
1983	-23.5	-3.3	-19.6	41.8	1.9	0.0	-0.3	-0.1	0.0	-0.2	0.1	0.9		
1984	-0.8	-11.5	-1.0	0.0	0.0	0.0	0.2	0.1	0.4	0.2	1.6	1.8		
1985	-7.3	11.0	3.5	2.5	-8.1	0.0	0.6	-0.1	0.0	2.1	2.7	-3.3		
1986	5.0	6.8	-0.9	27.8	0.6	8.2	4.7	-0.3	-0.3	-0.3	2.2	-1.8		
1987	-14.5	-4.0	-0.2	-1.4	14.2	-8.5	-0.3	1.8	1.4	-6.7	-11.5	-8.7		
1988	-3.5	19.1	2.2	1.8	1.0	0.6	0.6	0.7	0.3	-0.9	2.4	13.7		
1989	4.3	-2.5	3.1	0.0	2.8	-0.6	-0.1	-0.2	-1.3	-8.3	-0.1	5.0		
1990	-7.6	-5.3	11.2	40.2	35.1	7.1	1.9	0.4	-0.7	0.0	1.1	0.1		
1991	-0.3	-0.1	0.0	-1.3	-0.7	1.3	0.4	-0.3	-0.1	0.1	-11.1	-33.6		
AVG	-2.9	4.5	4.5	15.4	5.1	0.6	-0.1	-0.1	0.7	-1.5	-6.3	-10.0		
MAX	13.2	30.4	79.9	78.2	35.1	8.2	4.7	1.8	11.1	9.4	2.7	13.7		
MIN	-23.5	-11.5	-60.3	-10.9	-22.4	-8.5	-9.5	-3.3	-1.3	-23.2	-71.3	-80.4		
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Rock Slough		
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1976	4.4	10.6	16.1	11.0	3.1	-1.1	-3.1	-0.9	1.8	-4.1	-16.1	-8.8		
1977	-0.6	1.6	-7.3	-1.4	-0.3	-0.3	-0.2	-0.2	0.0	-0.2	0.2	0.5		
1978	0.1	-0.2	2.1	2.4	-2.4	2.4	0.6	0.0	0.0	0.6	-0.9	0.0		
1979	0.8	-1.4	2.1	7.0	3.5	0.3	-0.1	-0.1	-0.1	0.1	-0.4	-0.3		
1980	0.5	-0.1	0.3	1.7	-6.1	-0.5	0.3	0.1	0.0	1.1	-3.2	-1.6		
1981	-2.6	2.1	3.6	4.4	12.1	1.2	0.0	0.0	0.0	0.1	0.1	-0.3		
1982	0.3	2.9	-0.3	-1.0	-1.0	-0.6	-0.3	0.0	0.0	4.4	-0.8	-9.2		
1983	-8.6	-1.5	-7.7	17.5	1.3	0.0	-0.2	-0.1	0.0	-0.1	0.0	0.5		
1984	-0.4	-5.2	-0.7	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.5	0.2		
1985	-0.8	1.6	1.4	0.8	-1.7	0.0	0.2	0.0	0.0	0.4	0.3	-0.4		
1986	0.6	1.1	-0.2	8.6	0.2	2.6	1.7	-0.1	-0.1	-0.1	0.6	-0.3		
1987	-1.8	-0.5	0.0	-0.2	2.0	-2.5	-0.1	0.6	0.4	-1.3	-1.5	-0.9		
1988	-0.4	3.5	0.4	0.7	0.4	0.2	0.2	0.2	0.1	-0.2	0.4	1.6		
1989	0.5	-0.3	0.4	0.0	0.5	-0.2	-0.1	-0.1	-0.5	-1.5	0.0	0.6		
1990	-0.9	-0.9	1.6	4.8	6.2	2.1	0.6	0.1	-0.1	0.0	0.2	0.0		
1991	0.0	0.0	0.0	-0.2	-0.1	0.3	0.1	-0.1	0.0	0.0	-1.7	-4.7		
AVG	-0.6	0.8	0.7	3.5	1.1	0.2	0.0	0.0	0.1	0.0	-1.4	-1.4		
MAX	4.4	10.6	16.1	17.5	12.1	2.6	1.7	0.6	1.8	4.4	0.6	1.6		
MIN	-8.6	-5.2	-7.7	-1.4	-6.1	-2.5	-3.1	-0.9	-0.5	-4.1	-16.1	-9.2		

Table B-7. Differences and Percent Differences between Baseline and Project EC at Rock Slough, Old River (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Contra Costa Canal	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	13.0	24.5	74.5	82.1	35.7	-2.1	-6.6	-3.6	8.4	-15.8	-62.7	-82.6	
1977	-15.0	32.7	-57.1	-15.9	-2.6	-2.0	-1.1	-1.4	0.2	-0.6	0.6	5.6	
1978	1.3	-1.8	8.5	12.1	-5.1	3.1	6.3	0.9	0.0	1.3	-3.1	0.1	
1979	6.4	-7.1	4.6	38.3	12.1	1.3	-0.2	-0.2	-0.3	0.3	-1.8	-2.8	
1980	3.7	1.2	-3.0	7.2	-19.3	-6.5	1.9	1.1	-0.1	2.8	-11.5	-9.5	
1981	-19.9	7.4	34.0	8.5	37.9	4.1	0.0	0.0	0.0	0.5	1.1	-1.6	
1982	1.3	16.6	0.2	-1.5	-2.8	-0.4	-4.2	0.0	-0.1	8.6	-1.6	-38.8	
1983	-29.1	-2.9	-47.4	31.0	29.4	0.2	-0.4	0.0	0.0	-0.1	0.0	0.9	
1984	-0.7	-5.9	-4.3	-0.1	0.0	0.0	0.1	0.2	0.3	0.2	1.4	2.2	
1985	-6.6	8.6	3.8	4.1	-8.9	-0.3	0.4	0.0	0.0	1.9	2.7	-2.8	
1986	3.2	10.3	-5.6	26.5	7.3	-5.5	6.8	0.6	-0.4	-0.3	1.8	-0.2	
1987	-14.3	-5.8	3.5	-10.7	24.7	-9.7	-0.9	1.8	1.4	-5.3	-12.4	-6.7	
1988	-9.7	20.3	3.4	1.5	1.1	0.6	0.6	0.7	0.3	-0.5	1.3	12.6	
1989	5.8	-3.3	3.6	-0.4	2.6	-0.2	-0.2	-0.2	-1.1	-7.8	-0.7	5.4	
1990	-6.4	-7.5	10.5	30.3	42.8	8.2	2.5	0.6	-0.6	-0.2	1.0	0.2	
1991	-0.3	-0.3	0.1	-1.2	-0.8	0.9	0.4	-0.3	-0.1	0.0	-8.7	-32.1	
AVG	-4.2	5.5	1.8	13.2	9.6	-0.5	0.3	0.0	0.5	-0.9	-5.8	-9.4	
MAX	13.0	32.7	74.5	82.1	42.8	8.2	6.8	1.8	8.4	8.6	2.7	12.6	
MIN	-29.1	-7.5	-57.1	-15.9	-19.3	-9.7	-6.6	-3.6	-1.1	-15.8	-62.7	-82.6	
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Contra Costa Canal	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	4.0	8.6	15.1	11.8	3.7	-0.4	-1.5	-0.9	1.3	-2.6	-14.3	-9.4	
1977	-1.4	3.7	-6.8	-1.9	-0.3	-0.3	-0.2	-0.3	0.0	-0.1	0.1	0.6	
1978	0.1	-0.2	1.3	1.9	-1.0	0.7	1.7	0.3	0.0	0.6	-0.9	0.0	
1979	0.8	-1.0	0.7	6.0	2.9	0.5	-0.1	-0.1	-0.1	0.1	-0.4	-0.3	
1980	0.4	0.2	-0.5	2.0	-2.5	-1.7	0.6	0.3	0.0	1.1	-3.1	-1.4	
1981	-2.5	1.1	4.7	1.4	11.4	1.5	0.0	0.0	0.0	0.1	0.1	-0.2	
1982	0.1	2.7	0.1	-0.2	-0.8	-0.1	-0.9	0.0	0.0	3.6	-0.5	-7.7	
1983	-9.6	-1.0	-11.9	4.1	4.8	0.0	-0.1	0.0	0.0	-0.1	0.0	0.4	
1984	-0.3	-2.2	-1.4	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.3	
1985	-0.8	1.1	1.2	1.3	-1.7	-0.1	0.1	0.0	0.0	0.3	0.3	-0.3	
1986	0.4	1.6	-0.9	6.8	0.9	-0.9	1.3	0.2	-0.2	-0.1	0.5	0.0	
1987	-1.8	-0.8	0.4	-1.3	3.0	-2.1	-0.2	0.5	0.4	-1.1	-1.7	-0.7	
1988	-1.0	3.7	0.6	0.4	0.4	0.2	0.1	0.2	0.1	-0.1	0.2	1.5	
1989	0.6	-0.4	0.5	-0.1	0.4	-0.1	-0.1	-0.1	-0.4	-1.5	-0.1	0.6	
1990	-0.7	-1.2	1.6	3.5	6.3	2.2	0.6	0.2	-0.1	0.0	0.2	0.0	
1991	0.0	0.0	0.0	-0.2	-0.1	0.2	0.1	-0.1	0.0	0.0	-1.3	-4.5	
AVG	-0.7	1.0	0.3	2.2	1.7	0.0	0.1	0.0	0.1	0.0	-1.3	-1.3	
MAX	4.0	8.6	15.1	11.8	11.4	2.2	1.7	0.5	1.3	3.6	0.5	1.5	
MIN	-9.6	-2.2	-11.9	-1.9	-2.5	-2.1	-1.5	-0.9	-0.4	-2.6	-14.3	-9.4	

Table B-8. Differences and Percent Differences between Baseline and Project EC at Rock Slough, Contra Costa Canal (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Clifton Court	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	6.0	12.4	45.8	58.9	31.1	26.1	9.9	1.5	-0.7	-14.2	-36.7	-55.3	
1977	-21.3	14.9	-16.8	-14.8	-4.3	-3.2	-2.9	-4.5	-2.6	-3.4	-2.4	4.8	
1978	2.1	0.1	1.6	7.2	-3.5	-0.3	5.1	0.6	0.0	4.2	0.7	-0.5	
1979	0.9	-2.9	-0.2	22.6	8.2	1.3	-0.1	-0.1	-1.1	-0.6	-1.3	-2.5	
1980	1.0	0.9	-6.6	4.8	8.2	-1.0	0.6	0.1	0.0	15.6	-0.8	-5.4	
1981	-11.3	-2.9	18.8	-8.2	13.2	2.3	0.0	0.0	0.0	0.3	0.7	-0.6	
1982	0.0	9.3	-7.9	-4.5	0.4	0.5	0.1	0.0	-0.1	13.4	7.8	-20.1	
1983	-13.1	-2.8	31.6	-7.2	-2.0	-0.2	-0.1	0.0	0.0	0.0	0.3	-0.3	
1984	0.4	-0.3	0.0	0.0	0.0	0.0	0.2	0.1	1.3	1.5	1.2	2.0	
1985	-3.1	4.1	-1.4	0.3	-5.5	-0.7	0.8	0.6	1.4	2.5	2.5	-1.1	
1986	1.9	9.0	-7.6	11.9	5.9	1.2	0.7	0.1	-0.1	0.3	1.6	1.4	
1987	-7.4	-5.8	1.2	-7.5	21.3	5.1	4.4	3.0	2.3	-0.7	-8.8	-7.0	
1988	-8.4	15.7	7.5	-2.4	-1.4	0.0	0.6	1.1	0.2	0.9	4.0	4.3	
1989	7.9	-2.6	1.6	-0.2	1.3	-4.8	-2.1	-0.7	-2.7	-5.8	-2.2	4.0	
1990	-3.5	-8.1	4.2	20.9	42.3	11.8	4.3	2.3	0.4	0.0	0.6	0.4	
1991	0.5	-0.2	-0.2	-0.6	-0.7	-2.3	-2.9	-1.6	-0.7	-0.1	-0.6	-10.8	
AVG	-3.0	2.6	4.5	5.1	7.1	2.3	1.2	0.2	-0.2	0.9	-2.1	-5.4	
MAX	7.9	15.7	45.8	58.9	42.3	26.1	9.9	3.0	2.3	15.6	7.8	4.8	
MIN	-21.3	-8.1	-16.8	-14.8	-5.5	-4.8	-2.9	-4.5	-2.7	-14.2	-36.7	-55.3	
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Clifton Court	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	1.7	4.2	11.1	10.8	4.1	4.8	2.3	0.3	-0.1	-2.6	-9.8	-9.0	
1977	-2.7	2.2	-2.6	-2.2	-0.6	-0.4	-0.4	-0.7	-0.4	-0.6	-0.5	0.8	
1978	0.3	0.0	0.3	1.5	-1.0	-0.1	1.8	0.3	0.0	1.6	0.2	-0.1	
1979	0.1	-0.5	0.0	4.6	2.5	0.4	0.0	0.0	-0.4	-0.2	-0.3	-0.4	
1980	0.1	0.2	-1.4	1.7	5.0	-0.4	0.2	0.0	0.0	5.5	-0.3	-1.0	
1981	-1.9	-0.5	3.3	-1.6	3.4	0.7	0.0	0.0	0.0	0.1	0.1	-0.1	
1982	0.0	1.7	-2.4	-1.2	0.2	0.2	0.0	0.0	0.0	5.0	2.6	-4.7	
1983	-4.5	-1.1	22.6	-4.9	-1.6	-0.1	0.0	0.0	0.0	0.0	0.1	-0.1	
1984	0.1	-0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.5	0.4	0.4	
1985	-0.5	0.7	-0.4	0.1	-1.2	-0.2	0.2	0.1	0.4	0.6	0.4	-0.2	
1986	0.3	1.6	-1.5	3.2	1.8	0.6	0.3	0.0	0.0	0.1	0.5	0.3	
1987	-1.2	-0.9	0.2	-1.2	3.2	1.0	1.1	0.8	0.6	-0.2	-1.6	-1.0	
1988	-1.1	2.9	1.5	-0.7	-0.4	0.0	0.1	0.2	0.0	0.2	0.9	0.8	
1989	1.1	-0.4	0.3	0.0	0.2	-1.1	-0.8	-0.2	-0.9	-1.4	-0.4	0.6	
1990	-0.5	-1.4	0.8	3.1	7.0	2.8	1.1	0.5	0.1	0.0	0.1	0.1	
1991	0.1	0.0	0.0	-0.1	-0.1	-0.4	-0.7	-0.4	-0.2	0.0	-0.1	-2.0	
AVG	-0.5	0.5	2.0	0.8	1.4	0.5	0.3	0.1	0.0	0.5	-0.5	-1.0	
MAX	1.7	4.2	22.6	10.8	7.0	4.8	2.3	0.8	0.6	5.5	2.6	0.8	
MIN	-4.5	-1.4	-2.6	-4.9	-1.6	-1.1	-0.8	-0.7	-0.9	-2.6	-9.8	-9.0	

Table B-9. Differences and Percent Differences between Baseline and Project EC at Old River, State Highway 4 / Los Vaqueros Intake (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Los Vaqueros Intake			
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1976	9.2	20.3	62.4	66.8	29.8	11.3	0.7	-1.3	6.0	-16.7	-53.6	-66.2			
1977	-11.3	14.0	-33.4	-12.7	-3.8	-3.2	-1.7	-2.0	-0.3	-0.8	0.7	4.5			
1978	1.2	-1.0	6.7	8.7	-9.0	18.2	1.7	0.0	-0.1	4.2	-1.3	0.1			
1979	5.2	-5.3	6.4	27.2	12.9	1.5	-0.1	-0.2	-0.8	0.0	-1.7	-2.3			
1980	2.4	0.2	-2.8	0.7	3.2	5.4	1.4	0.1	0.0	10.8	-6.4	-8.0			
1981	-15.1	7.1	23.1	6.5	24.8	2.7	-0.9	0.0	0.0	0.4	0.9	-1.4			
1982	1.2	12.8	-4.2	-7.1	-4.9	-4.7	-0.2	0.2	0.7	17.6	2.8	-31.0			
1983	-21.9	-3.4	90.9	10.1	-0.1	0.0	-0.4	-0.1	0.0	-0.2	0.1	-0.2			
1984	-1.3	-11.7	-0.2	0.0	0.0	0.0	0.2	0.2	1.1	0.9	1.3	1.9			
1985	-5.1	7.3	2.5	3.3	-5.4	-0.2	0.8	0.3	0.0	2.2	2.6	-2.1			
1986	4.2	8.0	-4.3	21.9	-2.1	9.9	2.1	-0.3	-0.3	-0.1	1.7	-0.4			
1987	-10.9	-3.5	1.1	-4.1	19.2	-0.4	1.7	3.3	2.7	-3.2	-10.2	-6.9			
1988	-5.0	18.6	4.4	-0.1	0.3	0.7	1.1	1.0	1.1	0.4	1.6	8.2			
1989	4.3	-2.8	2.5	-0.2	1.9	-2.4	-1.0	-0.4	-2.4	-6.8	-1.2	4.4			
1990	-5.4	-6.3	7.9	30.2	36.1	8.6	3.0	1.0	-0.3	-0.2	0.9	0.3			
1991	-0.2	-0.3	-0.1	-0.8	0.1	-0.7	-1.7	-0.6	-0.1	0.0	-4.3	-23.6			
AVG	-3.0	3.4	10.2	9.4	6.4	2.9	0.4	0.1	0.5	0.5	-4.1	-7.7			
MAX	9.2	20.3	90.9	66.8	36.1	18.2	3.0	3.3	6.0	17.6	2.8	8.2			
MIN	-21.9	-11.7	-33.4	-12.7	-9.0	-4.7	-1.7	-2.0	-2.4	-16.7	-53.6	-66.2			
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Los Vaqueros Intake			
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1976	2.8	6.9	13.8	10.6	3.7	2.4	0.2	-0.3	1.1	-3.1	-13.3	-8.8			
1977	-1.3	1.9	-4.7	-1.8	-0.5	-0.5	-0.3	-0.4	0.0	-0.2	0.1	0.6			
1978	0.1	-0.1	1.1	1.9	-2.6	5.0	0.6	0.0	0.0	1.7	-0.4	0.0			
1979	0.7	-0.8	1.0	5.4	3.7	0.5	0.0	-0.1	-0.3	0.0	-0.4	-0.3			
1980	0.3	0.0	-0.6	0.2	0.7	1.9	0.5	0.0	0.0	4.2	-1.9	-1.3			
1981	-2.2	1.2	3.6	1.3	7.6	1.0	-0.3	0.0	0.0	0.1	0.1	-0.2			
1982	0.2	2.3	-1.5	-2.0	-1.7	-1.5	-0.1	0.1	0.3	7.1	0.9	-6.8			
1983	-7.3	-1.4	44.8	5.5	-0.1	0.0	-0.2	-0.1	0.0	-0.1	0.1	-0.1			
1984	-0.5	-6.0	-0.1	0.0	0.0	0.0	0.1	0.0	0.4	0.3	0.4	0.3			
1985	-0.7	1.1	0.9	1.1	-1.2	-0.1	0.2	0.1	0.0	0.4	0.4	-0.3			
1986	0.6	1.3	-0.8	6.2	-0.5	3.8	0.8	-0.1	-0.1	0.0	0.5	-0.1			
1987	-1.6	-0.5	0.2	-0.6	2.7	-0.1	0.5	0.9	0.8	-0.7	-1.6	-0.8			
1988	-0.6	3.5	0.9	0.0	0.1	0.2	0.3	0.2	0.3	0.1	0.3	1.2			
1989	0.5	-0.4	0.4	0.0	0.3	-0.7	-0.4	-0.1	-0.8	-1.5	-0.2	0.6			
1990	-0.7	-1.1	1.3	4.0	6.1	2.2	0.8	0.2	-0.1	0.0	0.2	0.0			
1991	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.5	-0.2	0.0	0.0	-0.8	-3.8			
AVG	-0.6	0.5	3.8	2.0	1.2	0.9	0.1	0.0	0.1	0.5	-1.0	-1.2			
MAX	2.8	6.9	44.8	10.6	7.6	5.0	0.8	0.9	1.1	7.1	0.9	1.2			
MIN	-7.3	-6.0	-4.7	-2.0	-2.6	-1.5	-0.5	-0.4	-0.8	-3.1	-13.3	-8.8			

Table B-10. Differences and Percent Differences between Baseline and Project EC at Clifton Court Forebay (2020 LOD)

Difference in EC Predictions (2020 Project - 2020 Baseline)												Tracy (DMC)	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	2.6	8.9	31.5	40.9	16.3	31.8	5.4	0.0	-10.6	-7.4	-2.6	-45.8	
1977	-9.8	3.3	-3.4	-7.6	-0.6	-1.0	-1.0	-0.9	-0.8	-1.1	1.5	3.5	
1978	1.1	-0.4	0.6	2.1	-5.3	6.3	0.8	0.0	0.0	2.4	-0.5	-1.1	
1979	4.1	-1.1	0.4	13.4	1.4	0.4	0.0	0.0	-1.0	-0.7	-1.2	-2.7	
1980	0.7	0.4	-5.7	-0.1	-2.2	-0.3	0.0	0.0	0.0	11.1	-2.7	-5.3	
1981	-7.0	2.9	11.7	-10.6	8.2	1.2	0.1	0.0	0.0	0.3	0.6	-0.9	
1982	0.2	5.8	-12.0	-3.5	-1.1	-1.0	0.0	0.0	0.0	11.6	4.3	-17.0	
1983	-1.5	-2.3	-11.2	-20.0	-0.8	0.0	2.2	0.3	0.3	0.1	-0.4	-2.1	
1984	0.2	1.9	0.0	0.0	0.1	0.0	0.1	0.0	1.1	1.2	0.3	0.7	
1985	-3.5	3.2	-3.0	-2.9	-3.5	-0.1	0.4	0.3	7.1	2.3	2.0	-1.7	
1986	6.3	7.4	-8.2	6.5	-4.6	-1.6	0.0	0.2	-0.1	0.0	0.6	-0.4	
1987	-7.5	-4.9	0.7	-4.5	14.7	6.3	2.9	2.8	10.8	7.4	-1.2	-5.6	
1988	-1.0	20.4	4.3	-5.3	-1.0	0.0	0.5	0.9	3.4	2.3	1.6	5.0	
1989	4.9	-2.7	1.2	-0.2	0.7	-10.4	-1.9	-0.3	-2.4	-5.4	-1.7	3.1	
1990	-2.7	-6.5	3.6	16.9	21.7	6.2	1.8	0.7	-0.1	-0.3	0.7	0.3	
1991	-0.1	-0.2	-0.1	-0.4	-0.5	-4.0	-1.0	-0.6	-0.2	0.0	-1.0	-15.9	
AVG	-0.8	2.2	0.6	1.5	2.7	2.1	0.6	0.2	0.5	1.5	0.0	-5.4	
MAX	6.3	20.4	31.5	40.9	21.7	31.8	5.4	2.8	10.8	11.6	4.3	5.0	
MIN	-9.8	-6.5	-12.0	-20.0	-5.3	-10.4	-1.9	-0.9	-10.6	-7.4	-2.7	-45.8	
Percent Difference in EC Predictions (2020 Project - 2020 Baseline)												Tracy (DMC)	
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1976	0.7	2.6	6.6	7.0	2.2	4.9	0.9	0.0	-1.9	-1.3	-0.6	-6.6	
1977	-1.3	0.5	-0.6	-1.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.2	0.3	0.5	
1978	0.1	-0.1	0.1	0.5	-1.7	1.8	0.3	0.0	0.0	0.8	-0.1	-0.2	
1979	0.7	-0.2	0.1	3.0	0.5	0.1	0.0	0.0	-0.3	-0.2	-0.3	-0.4	
1980	0.1	0.1	-1.1	-0.1	-1.4	-0.1	0.0	0.0	0.0	3.5	-0.7	-0.9	
1981	-1.3	0.5	2.0	-1.9	1.7	0.3	0.0	0.0	0.0	0.1	0.1	-0.1	
1982	0.0	1.0	-2.6	-0.9	-0.5	-0.4	0.0	0.0	0.0	3.6	1.2	-3.5	
1983	-0.6	-0.9	-7.3	-8.3	-0.5	0.0	1.2	0.2	0.2	0.1	-0.1	-0.6	
1984	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.1	0.1	
1985	-0.5	0.5	-0.7	-0.7	-0.6	0.0	0.1	0.1	1.7	0.5	0.3	-0.2	
1986	0.9	1.2	-1.4	1.4	-1.5	-0.8	0.0	0.1	0.0	0.0	0.1	-0.1	
1987	-1.2	-0.8	0.1	-0.7	2.1	1.0	0.6	0.6	2.7	1.6	-0.2	-0.7	
1988	-0.1	3.7	0.8	-1.2	-0.2	0.0	0.1	0.2	0.8	0.6	0.3	0.8	
1989	0.7	-0.4	0.2	0.0	0.1	-2.0	-0.5	-0.1	-0.7	-1.2	-0.3	0.4	
1990	-0.4	-1.1	0.6	2.5	3.4	1.1	0.3	0.2	0.0	-0.1	0.1	0.0	
1991	0.0	0.0	0.0	-0.1	-0.1	-0.7	-0.2	-0.1	0.0	0.0	-0.2	-2.8	
AVG	-0.1	0.5	-0.2	-0.1	0.2	0.3	0.2	0.1	0.2	0.5	0.0	-0.9	
MAX	0.9	3.7	6.6	7.0	3.4	4.9	1.2	0.6	2.7	3.6	1.2	0.8	
MIN	-1.3	-1.1	-7.3	-8.3	-1.7	-2.0	-0.5	-0.2	-1.9	-1.3	-0.7	-6.6	

Table B-11. Differences and Percent Differences between Baseline and Project EC at Tracy Pumping Plant / Delta-Mendota Canal (2020 LOD)